

chain nodes:

15 17 18 19 20 22 23

ring nodes:

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds:

1-7 1-20 2-18 2-19 3-22 4-15 4-23 15-17

ring bonds:

1-2 1-5 2-3 3-4 4-5 6-7 6-10 6-14 7-8 8-9 9-10 10-11 11-12 12-13 13-14

exact/norm bonds:

1-2 1-5 1-7 1-20 2-3 2-18 2-19 3-4 3-22 4-5 4-15 4-23 6-7 7-8 8-9 9-10 15-17

normalized bonds:

6-10 6-14 10-11 11-12 12-13 13-14

G1:0,S,CH2,SO2

G2:H,X,Ak

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLAS\$17:CLAS\$18:CLAS\$19:CLAS\$20:CLAS\$22:CLAS\$23:CLAS\$

10/602,142

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LOGINID:ssspta1600txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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     1
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      2
                 "Ask CAS" for self-help around the clock
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                 New STN AnaVist pricing effective March 1, 2006
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         MAY 11
                 KOREAPAT updates resume
                 Derwent World Patents Index to be reloaded and enhanced
NEWS
     7
         MAY 19
NEWS
     8
         MAY 30
                 IPC 8 Rolled-up Core codes added to CA/CAplus and
                 USPATFULL/USPAT2
                 The F-Term thesaurus is now available in CA/CAplus
NEWS
     9
         MAY 30
NEWS 10
         JUN 02
                 The first reclassification of IPC codes now complete in
                 INPADOC
NEWS 11
         JUN 26
                 TULSA/TULSA2 reloaded and enhanced with new search and
                 and display fields
NEWS 12
         JUN 28
                 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13
         JUl 07
                 Coverage of Research Disclosure reinstated in DWPI
NEWS 14
        JUl 11 CHEMSAFE reloaded and enhanced
             JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
NEWS EXPRESS
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NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21

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=>

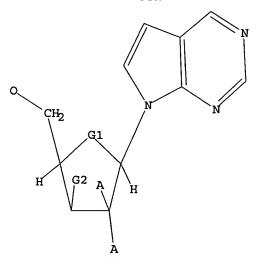
Uploading C:\Program Files\Stnexp\Queries\10602142.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 0, S, CH2, SO2

G2 H, X, Ak

Structure attributes must be viewed using STN Express query preparation.

McIntosh

=> s 11

SAMPLE SEARCH INITIATED 14:29:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 358 TO ITERATE

100.0% PROCESSED 358 ITERATIONS 29 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 6025 TO 8295 PROJECTED ANSWERS: 257 TO 903

L2 29 SEA SSS SAM L1

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:29:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 358 TO ITERATE

100.0% PROCESSED 358 ITERATIONS 29 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 6025 TO 8295 PROJECTED ANSWERS: 257 TO 903

L3 29 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:29:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7180 TO ITERATE

100.0% PROCESSED 7180 ITERATIONS 570 ANSWERS

SEARCH TIME: 00.00.02

L4 570 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 167.38 167.59

FILE 'CAPLUS' ENTERED AT 14:29:41 ON 13 JUL 2006
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=> s 14
L5
               47 L4
=> s 15 and (virus or hepatituc or hcv or flavivirus or viral or antiviral)
          342901 VIRUS
           72869 VIRUSES
          355677 VIRUS
                     (VIRUS OR VIRUSES)
                0 HEPATITUC
           10892 HCV
               20 HCVS
           10896 HCV
                     (HCV OR HCVS)
            1372 FLAVIVIRUS
             689 FLAVIVIRUSES
            1601 FLAVIVIRUS
                     (FLAVIVIRUS OR FLAVIVIRUSES)
          158589 VIRAL
               13 VIRALS
          158600 VIRAL
                     (VIRAL OR VIRALS)
           54432 ANTIVIRAL
            1096 ANTIVIRALS
           54650 ANTIVIRAL
                     (ANTIVIRAL OR ANTIVIRALS)
1.6
               34 L5 AND (VIRUS OR HEPATITUC OR HCV OR FLAVIVIRUS OR VIRAL OR
                  ANTIVIRAL)
=> d bib abs hitstr 1-34 16
      ANSWER 1 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
L6
      2006:603846 CAPLUS
AN
      Fluorinated pyrrolo[2,3-d]pyrimidine nucleosides for the treatment of
TI
      RNA-dependent RNA viral infection
IN
      Maccoss, Malcolm; Olsen, David B.; Leone, Joseph; Durette, Philippe L.
      Merck & Co., Inc., USA
PA
      PCT Int. Appl., 46 pp.
SO
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
      PATENT NO.
                                       DATE
                              KIND
                                                      APPLICATION NO.
                                       ----/---
                               ----
                                                      -----
                                       2006/0622
                                                   WO 2005-US37224
PΙ
      WO 2006065335
                               A2
                                                                                  20051017
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
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YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,/FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM PRAI US 2004-620743P 2004/021 Р Р US 2005-651366P 2005/0209 The present invention provides fluorinated pyrrolo[2,3, d]pyrimidine AB nucleoside compds. which are inhibitor's of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as precursors to inhibitors of hepatitis C virus (HCV) NS5B polymerase, as precursors tó inhibitors of HCV replication, and/or for the treatment of hepatitis C infection. The invention also describes pharmaceutical compns. containing such fluorinated pyrrolo[2,3d)pyrimidine nucleoside alone/or in combination with other agents active against RNA-dependent RNA viral infection, in particular HCV infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral

TΤ 443643-17-2P

invention.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

with the fluorinated pyrrolo[2,3-d]pyrimidine nucleoside of the present

(fluorinated pyrrolopyrimidine nucleosides for treatment of RNA-dependent RNA viral infection)

replication, and/or treating RNA-dependent RNA viral infection

RN 443643-17-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-(2-C-methyl- β -Dribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

2006:494221 CAPLUS AN

DN 145:8396

ΤI Preparation of nucleoside analogs for treating Hepatitis C and other Flaviviridae family viral infections

IN Keicher, Jesse D.; Roberts, Christopher D.; Dyatkina, Natalia B.

Genelabs Technologies, Inc., USA PA

U.S. Pat. Appl. Publ., 23 pp. SO

CODEN: USXXCO DT Patent

AB Nucleoside analogs I, wherein Y is a bond, -CH2-, or -O-; W-W2 are independently H, acyl, oxyacyl, phosphonate, phosphate esters, phosphonamidate, phosphorodiamidate, phosphoramidate monoester, cyclic phosphoramidate, cyclic phosphorodiamidate, phosphoramidate diester, and -C(O)CHR1NHR2, where R1 is selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heteroaryl, substituted heteroaryl, heterocyclic and substituted heterocyclic and a side-chain of an amino acid; or R1 and R2 together with the carbon and nitrogen atoms bound thereto resp. form a heterocyclic ring compns. are prepared and useful in the treatment of viral infections caused by a Flaviviridae family virus, such as Hepatitis C virus. Thus, II was prepared and tested as an antiviral agent against Hepatitis C virus in an HCV-NS5b enzyme assay (IC50 = 2.6 μM).

IT 887748-02-9P 887748-03-0P 887748-04-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleoside analogs for treating Hepatitis C and other Flaviviridae family viral infections)

RN 887748-02-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

RN 887748-03-0 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

NH2 NO2

N O OH

N R R

O P OPO
$$_3$$
H2

OH OH

IT 443642-29-3P 443642-32/-8P 443642-33-9P 887747-99-1P 887748-00-7P 887748-01-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nucleoside analogs for treating Hepatitis C and other Flaviviridae family viral infections)

RN 443642-29-3 CAPLUS

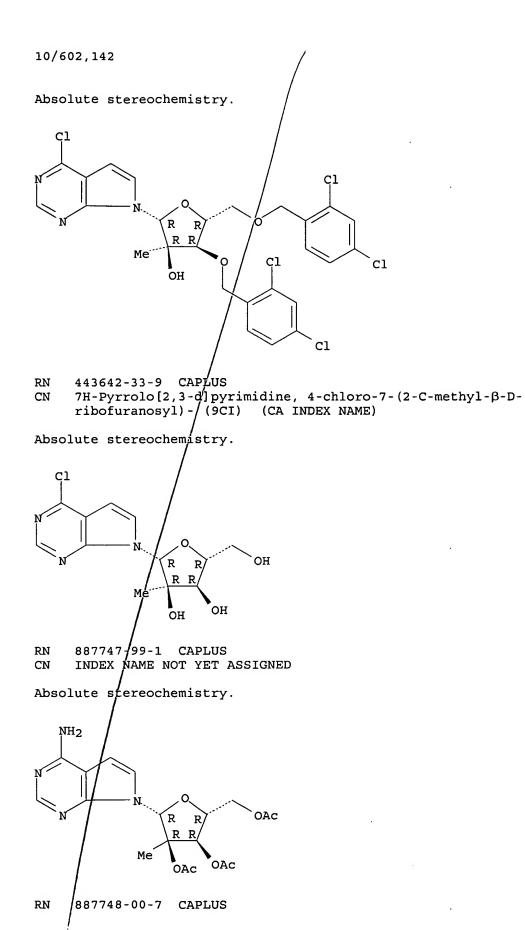
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 443642-32-8 CAPLUS

CN 7H-Pyrrolo 2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

McIntosh



CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

RN 887748-01-8 /CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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L6 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
```

AN 2006:296019 CAPLUS

DN 144:312290

TI Preparation of nucleoside derivatives as antiviral, antitumor, and antidiabetic prodrug agents

IN Reddy, Raja K.; Erion, Mark D.

PA Metabasis Therapeutics, Inc., USA

SO PCT Int. Appl., 255 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| PAIN. CNI Z | | | | | | | | | | | | | | | | | |
|-------------|---------------|-------|-----|-----|------|-----|----------|-----|-----------------|-----|-----|-----|-----|-----|----------|-----|-----|
| | PATENT NO. | | | | KIND | | DATE | | APPLICATION NO. | | | | | | DATE | | |
| | | | | | | - | / | | | | | | | | | | |
| ΡI | WO 2006033709 | | | | A2 | | 2006ø330 | | WO 2005-US27235 | | | | | | 20050729 | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | AU/ | AZ, | BA, | BB, | ВG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KM, | KP, | KR, | KZ, |
| | | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, |
| | | NG, | NI, | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, |
| | | SL, | SM, | SY, | ТJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UΖ, | VC, | VN, | YU, |
| | | ZA, | ZM, | ZW | | | | | | | | | | | | | |
| | RW | : AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | ES, | FI, | FR, | GB, | GR, | HU, | ΙE, |

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

*9*03215

20040729

US 2005182252 A1 20050818 US 2004-PRAI US 2004-903215 A 20040729
US 2005-652527P P 20050211
US 2004-544743P P 20040213

OS MARPAT 144:312290

GΙ

Nucleoside derivs. I, wherein X1 is O, S, SO, substituted nitrogen; B is AB heterocycle, nucleobase / Y is O, S, N, substituted C, CH2; R and R1 are independently H, alkyl, alkenyl, alkynyl, R2 is H, alky,, alkenyl, alkynyl, alkylamino, cycloalkyl-amino, halogen, alkoxy; R3 is H, halogen, alkyl, alkoxy, alkeny∮-oxy, alkylthio, alkylcarbonyl-oxy, aryloxy-carbonyl, azi/do, amino, alkylamino; R4 is H, alkyl, alkenyl, alkynyl, OH, alkoxy,/halogen, CN, were prepared and tested in vitro and in rats for the treatment of viral diseases including hepatitis C viral infection, cancer, diabetes, and other diseases. The activation of prodrug analogs to NMP was evaluated in the microsomal fraction of human/liver. The HepDirect-carbonate prodrugs evaluated were activated to the corresponding NMP in human liver microsomes, indicating that the enzymes required for removal of both the HepDirect and the carbonate prodryg moieties are present in this reaction system. Thus, nucleoside II was prepared via coupling and hydrogen transfer reactions and tested in vitr ϕ and in rats as antiviral, antitumor, and antidiabetic prodrug agents. The oral bioavailability (OBAV) of the free nucleoside is/very low (<5 %) whereas the OBAV of its carbonate prodrugs are >20 %. The compds. of the present invention may also be administered in combination with an agent that is an inhibitor of HCV NS3 serine protease.

IT 862188-61-2P 862188-65-6P 862188-67-8P 862188-68-9P 862188-69-0P 862188-70-3P 862188-71-4P 862188-72-5P 862188-74-7P 862188-75-8P 862188-77-0P 862188-78-1P 862188-79-4P 862188-80-5P 862188-81-6P 862188-84-9P 862188-85-0P 862188-86-1P

862188-88-3P 862188-90-7P 862188-97-4P

McIntosh

McIntosh

7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-bromophenyl)-2-

oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-

Absolute stereochemistry.

(9CI)

862188-69-0 CAPLUS

(CA INDEX NAME)

RN

CN

RN 862188-70-3 CAPLÙS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-bromophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-71-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(5-bromo-3-pyridinyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-72-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2R,4S)-2-oxido-4-phenyl-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

CN 7H-Pyrrolo[2,3\d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-chlorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX\NAME)

Absolute stereochemistry.

RN 862188-75-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2R,4S)-4-(5-bromo-2-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-77-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-[3,5-bis(trifluoromethyl)phenyl]-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-

methyl- β -D-ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-78-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-bromo-4-pyridinyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-

Absolute stereochemistry.

Absolute stereochemistry.

(CA INDEX NAME)

(9CI)

RN 862188-80-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2R,4S)-2-oxido-4[3-(txifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuxanosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-81-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[(2S,4S,5R)-2-oxido-4,5-diphenyl-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-84-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7 [5-0-[(2R,4S)-4-(2-bromo-5-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 862188-85-0 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3,5-dichlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-(CA INDEX NAME) Absolute stereochemistry. ŅH2 Cl R R R R Me OH OH C1RN862188-86-1 CAPLUS 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3,5-difluorophenyl)-CN2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-(CA INDEX NAME) Absolute stereochemistry. NH₂ R Me ОН OH 862188-88-3 CAPLUS RN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-(4-pyridinyl)-1,3,2-dioxaphosphorinan 2-yl]- β -D-ribofuranosyl]- (9CI) CN (CA INDEX NAME) Absolute stereochemistry.

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-cyanophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

862189-00-2 CAPLUS

RN

RN 862189-12-6 CAPLUS 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(3-CN fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

OH

RN 862189-13-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(3-bromo-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-19-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(2-bromophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-(9CĮ) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-21-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-[3,5-

bis (trifluoromethyl) phenyl] -2-oxido-1,3,2-dioxaphosphorinan-2-yl] -2-C-methyl- β -D-ribofuranosyl] -1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 H_2N
 H_2N
 H_3
 H_4
 H_4
 H_5
 H_6
 H

RN 862189-22-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2S,4R)-2-oxido-4-[3+(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-23-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(2,4-dichlorophenyl)-2-oxido-1,3 2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 862189-25-1 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0-[(2S,4R)-2-oxido-4-(3-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 879493-03-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2,5-difluorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-62-3 CMF C21 H23 F2 N4 O7 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

```
RN
     879493-04-6 CAPLUS
CN
     7H-Pyrrolo_{(2,3-d)} pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-chloro-4-
     fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-
     ribofuranosyl]-, trifluoroacetate (10:19) (9CI) (CA INDEX NAME)
     CM
          1
     CRN
          862188-63-4
     CMF C21 H23 Cl F N4 O7 P
Absolute stereochemistry
   ŅH2
                 R
                  R
             Me
                       OH
                 OH
                                            Cl
     CM
     CRN
          76-05-1
     CMF
          C2 H F3 O2
     CO<sub>2</sub>H
RN
     879493-05-7 CAPLUS
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-
CN
     phenyl-1, 3, 2-dioxaphosphorinan-2-yl]-\beta-D-ribofuranosyl]-,\\
     trifluoroacetate (5:2) (9CI) (CA INDEX NAME)
     CM
          1
          862188-92-9
     CRN
          C21 H25 N4 O7 P
     CMF
```

```
10/602,142
      - СН3
    0
RN
      879493-07-9 CAPLUS
      7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[(2R,4S,5R)-2-oxido-
      4.5-diphenyl-1,32-dioxaphosphorinan-2-yl]-\beta-D-ribofuranosyl]-,
      trifluoroacetate \((9CI)
                                  (CA INDEX NAME)
      CM
      CRN
            862188-73-6
      CMF
            C27 H29 N4 O7
Absolute stereochemistry
   NH2
                    R
                    R R
               Me
                          OH
                    OH
      CM
            2
      CRN
            76-05-1
      CMF
           C2 H F3 O2
     CO2H
RN
      879493-08-0 CAPLUS
CN
      7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-
     [(2\alpha, 4\alpha, 6\alpha)-2-oxido-4,6-diphenyl-1,3,2-dioxaphosphorinan-2-yl]-\beta-D-ribofuranosyl]-, mono(trifluoroacetate) (9CI) (CA INDEX
```

862188-76-9 CMF C27 H29 N4 O7 P

1

NAME)

CM

CRN

10/602,142

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-09-1 CAPLUS 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[(2 α ,4 β ,6 β)-2-oxido-4,6-diphenyl-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 862300-23-0 CMF C27 H29 N4 O7 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

10/602,142

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-14-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-[2-(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-87-2 CMF C22 H24 F3 N4 O7 P

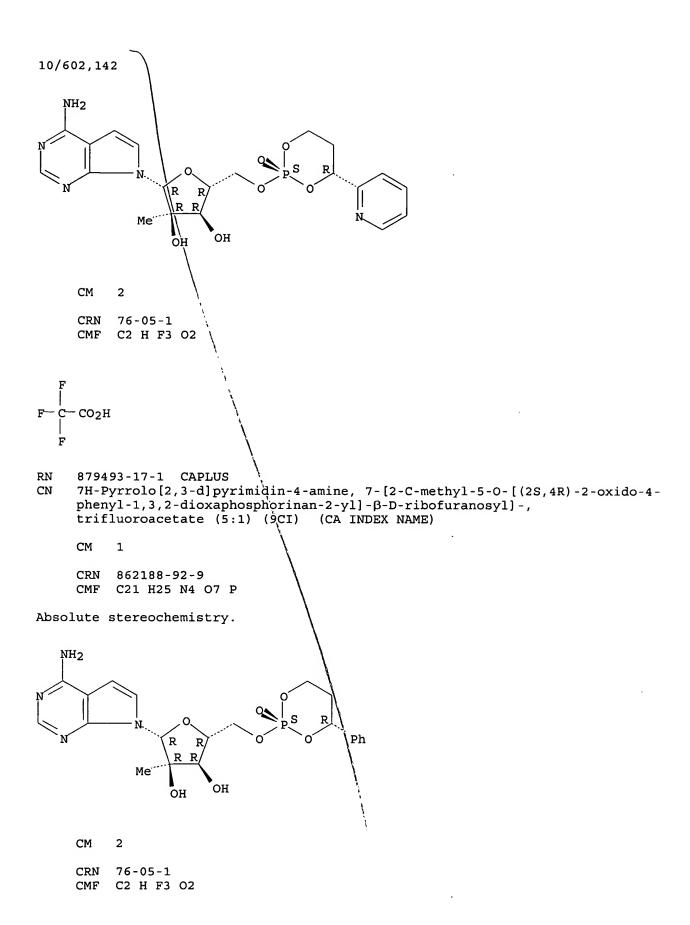
Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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10/602,142
```

```
- c-- со<sub>2</sub>н
   F
RN
     879493-15-9 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-bromo-4-
     fluorophenyl) -2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-
     ribofuranosyl]-, \trifluoroacetate (5:1) (9CI) (CA INDEX NAME)
     CM
          1
     CRN
          862188-89-4
     CMF C21 H23 Br F N4 07 P
Absolute stereochemistry.
   ŅH2
                 R
                  R R
             Me
                       OH
                 OH
                                            Br
     CM
          2
     CRN
          76-05-1
     CMF
          C2 H F3 O2
    CO2H
  F
     879493-16-0 CAPLUS
RN
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-
CN
     (2-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]-,
     trifluoroacetate (5:6) (9CI) (CA INDEX NAME)
     CM
          1
          862188-91-8
     CRN
     CMF C20 H24 N5 O7 P
```



CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-19-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(2,3-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-94-1 CMF C21 H23 F2 N4 O7 P

10/602,142

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-20-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2-fluoro-5-methoxyphenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-95-2 CMF C22 H26 F N4 O8 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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10/602,142
```

```
F-C-CO<sub>2</sub>H

RN 879493-21-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(2-chloro-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-, trifluoroacetate (10:9) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-96-3

CMF C21 H23 Cl F N4 O7 P
```

10/602,142

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-25-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-,
trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

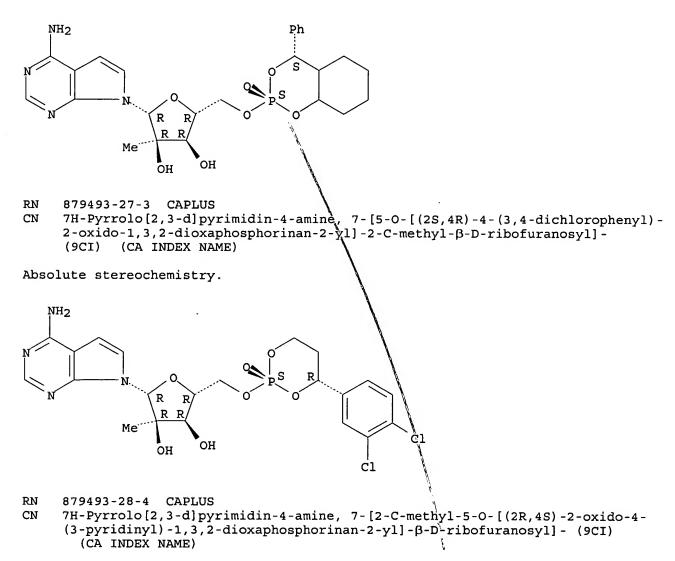
CM 1

CRN 862188-65-6 CMF C21 H24 Cl N4 O7 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2



CMF C25 H31 N4 O7 P

Absolute stereochemistry.

RN 879493-33-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,6S)-4,4-dimethyl-2-oxido-6-(4-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2R,4S)-4-(4-cyanophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

RN 879493-35-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,6S)-6-(3-chlorophenyl)-4,4-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) \((CA INDEX NAME) \)

Absolute stereochemistry.

RN 879493-36-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(5R,7S)-7-(3-chlorophenyl)-5oxido-4,6-dioxa-5-phosphaspiro[2.5]oct-5-yl]-2-C-methyl-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 879493-37-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(3-

McIntosh

chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 862189-01-3 (CMF C21 H24 Cl N4 O8 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-38-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one; 2-amino-7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 879493-39-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4S)-4-(5-bromo-2-

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10/602,142
     fluorophenyl) -2-oxido-1,3,2-dioxaphosphorinan-2-yl] -2-C-methyl-\beta-D-
     ribofuranosyl]-1,7-dihydro-, trifluoroacetate (5:1) (9CI) (CA INDEX NAME)
     CM
          862189-03-5
     CRN
     CMF C21 H23 Br F N4 O8 P
Absolute stereochemistry.
                                                          Br
H<sub>2</sub>N
                       R
                        R R
                   Me
                             OH
                        ОН
     CM
          2
     CRN
          76-05-1
     CMF
          C2 H F3 O2
     CO<sub>2</sub>H
RN
     879493-40-0 CAPLUS
CN
     4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(3-
     bromophenyl) -2-oxido-1,3,2-dioxaphosphorinan-2-yl] -2-C-methyl-β-D-
     ribofuranosyl]-1,7-dihydro-, trifluoroacetate (10:9) (9CI) (CA INDEX
     NAME)
     CM
          1
```

Absolute stereochemistry.

CRN 862189-04-6

CMF C21 H24 Br N4 O8 P

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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10/602,142
```

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CM 2
CRN 76-05-1
CMF C2 H F3 O2

RN 879493-47-7 CAPLUS
CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(3,5-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-, trifluoroacetate (5:1) (9CI) (CA INDEX NAME)
CM 1
CRN 862189-09-1
CMF C21 H23 F2 N4 O8 P

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879493-51-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,6R)-4,4-dimethyl-1-oxido-6-phenyl-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 862189-16-0 CMF C23 H29 N4 O8 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

```
-CO2H
RN
     879493-53-5 CAPLUS
     4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(2,3-
CN
     difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-
     ribofuranosyl]-1,7-dihydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)
     CM
           1
     CRN 862189-18-2
     CMF C21 H23 F2 N4 O8 P
Absolute stereochemistry.
H<sub>2</sub>N
                       R
                   Me
                             OH
                       OH
     CM
          2
     CRN
          76-05-1
          C2 H F3 O2
     CMF
     CO2H
RN
     879493-54-6 CAPLUS
     4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(3,4-
CN
     dichlorophenyl) -2-ox \neq do-1, 3, 2-dioxaphosphorinan-2-yl] -2-C-methyl-\beta-D-dioxaphosphorinan-2-yl]
     ribofuranosyl]-1,7-dhhydro-, trifluoroacetate (5:1) (9CI) (CA INDEX NAME)
     CM
          1
     CRN
          862189-20-6
          C21 H23 Cl2 NA 08 P
     CMF
Absolute stereochemistry.
```

McIntosh

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-[5-O-[(2R,4S)-4-(3,5-dichlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-[2-C-methyl-5-O-[(2R,4S)-2-oxido-4-(3-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 879494-11-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-[5-0-[(2R,6S)-6-(2,3-difluorophenyl)-4,4-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosy/l]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 879494-12-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-[5-0-[(2R,4S)-4-(2,3-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 879494-16-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, /1-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 443642-29-3 443642-38-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of nucleoside derivs. via coupling and hydrogen transfer reactions as antiviral, antitumor, and antidiabetic prodrug

agents)

RN 443642-29-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]/pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)(9CI) (CA INDEX/NAME)

Absolute stereochemistry. Rotation (-).

RN 443642-38-4 CAPLUS

McIntosh

4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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ANSWER 4 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 2006:100316 CAPLUS

DN 144:192451

Preparation of nucleoside aryl phosphoramidates for use as an inhibitor of ΤI hepatitis C virus NS5B polymerase, RNA-dependent RNA polymerase, RNA viral replication and treating RNA-dependent RNA viral infections

IN Maccoss, Malcolm; Olsen, David B.

PA Merck & Co., Inc., USA

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DTPatent

English LA

| FAN. | CNT 1 PATENT NO. | | | | KIND | | DATE | | | APPLICATION NO. | | | | | DATE | | | |
|----------|---------------------|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| PI | | 2006012078 2006012078 | | | A2 A3 | | 20060202 | | WO 2005-US21684 | | | | | 20050620 | | | | |
| | | W: | CN, GE, LC, | CO, GH, LK, | CR, GM, LR, | CU, HR, LS, | CZ, HU, LT, | AU, DE, ID, LU, | DK, IL, IV, | DM, IN, MA, | DZ, IS, MD, | EC, JP, MG, | EE, KE, MK, | EG, KG, MN, | ES, KM, MW, | FI, KP, MX, | GB, KR, MZ, | GD, KZ, NA, |
| | | | SL, | • | SY, | - | • | PG, TN, | | • | - | | • | • | • | • | • | • |
| | | RW: | IS, CG, KE, | IT, CI, | LT, CM, MW, | LU, GA, MZ, | MC, GN, NA, | CZ, NL, GQ, SD, | PL, GW, | PT, ML, | RO, MR, | SE, NE, | SI, SN, | SK, TD, | TR, TG, | BF, BW, | BJ, GH, | CF, GM, |
| PRAI | | 2004 2004 | -582 | 667P | · | P | | 2004 2004 | | | | | | | | | | |
| OS GI | MAI | RPAT | 144: | 1924 | 51 | | | | | | | | | | | | | |

AB Nucleoside aryl phosphoramidates I, wherein Y is (un) substituted C or N; Ar is (un) substituted Ph; R1 is hydrogen, fluoro, azido, amino, hydroxy, C1-3 alkoxy, mercapto, and C1-3 alkylthio; R2 and R3 are each independently selected from the group consi∕sting of hydrogen, Me, C1-16 alkylcarbonyl, C2-18 alkenylcarbonyl, C1-10 alkyloxycarbonyl, C3-6 cycloalkylcarbonyl, and C3-6 cycloalkyloxycarbonyl; R4 is hydrogen, halogen, Me, azido, or amino; R5 and R6 are each independently selected from the group consisting of hydrogen, hddroxy, halogen, C1-4 alkoxy, amino, C1-4 alkylamino, di (C1-4 alkyl) amino, C3-6 cycloalkylamino, di (C3-6 cycloalkyl)amino, benzylamino, dibenzylamino, or C4-6 heterocycloalkyl, wherein alkyl, cycloalkyl, benzyl, and/heterocycloalkyl; R7 is hydrogen, C1-5 alkyl, (un) substituted Ph or benzyl; R8 is hydrogen, C1-6 alkyl, C3-6 cycloalkyl, (un) substituted Ph or benzyl; R9 is hydrogen or Me, were prepared as precursors to inhibitors/of RNA-dependent RNA viral polymerase. Nucleoside aryl phosphoramidates, I, alone or in combination with other agents active against RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection. Thus, II was prepared (no yield) and tested as an inhibitor of hepatitis C virus (HCV) NS5B polymerase, as precursors to inhibitors of HCV replication, and/or for the treatment of hepatitis C infection (EC50 less than 100 μ M).

Ι

TT 874883-62-2P 874883-63-3P 874883-64-4P 874883-65-5P 874883-66-6P 874883-67-7P 874883-68-8P 874883-69-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleoside aryl phosphoramidates for use as an inhibitors of hepatitis C virus NS5B polymerase, RNA-dependent RNA polymerase, RNA viral replication and treating RNA-dependent RNA viral infections)

RN 874883-62-2 CAPLUS

L-Alanine, N-[(S)-[1-(4-ami/no-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-1-deoxy-2-C-methyl-β-D-ribofuranos-5-0/yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CN

RN 874883-63-3 CAPLUS

Absolute stereochemistry.

RN 874883-64-4 CAPLUS

CN L-Alanine, N-[(R)-[1-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-1-deoxy-2-C-methyl-β-D-ribofuranos-5-0-yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Pho Me N S OME

N OH OH OH

RN 874883-65-5 CAPLUS

CN L-Alanine, N-[(S)-[1-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-1-deoxy-2-C-methyl-β-D-ribofuranos-5-O-yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 874883-66-6 CAPLUS

CN L-Alanine, N-[(S)-[1-deoxy-1-(2,4-diamino-/H-pyrrolo[2,3-d]pyrimidin-7-yl)-2-C-methyl-β-D-ribofuranos-5-O-yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 874883-67-7 CAPLUS

CN L-Alanine, N-[(R)-[1-deoxy-1/(2,4-diamino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2-C-methyl-β-D-ribofuranos-5-O-yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 874883-68-8 CAPLUS

CN L-Alanine, N-[[1-(4-amino-5-fluoro-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-1-deoxy-2-C-methyl-β-D-ribofuranos-5-O-yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

874883-69-9 CAPLUS RN

CNL-Alanine, N-[[1-(2-amino-5-fluoro-1,4-dihydro-4-oxo-7H-pyrrolo[2,3d]pyrimidin-7-yl)-1-deoxy-2-C-methyl-β-D-ribofuranos-5-0-

yl]phenoxyphosphinyl]-, methyl ester (9CI) (CA INDEX NAME)

443642-29-3 443642-3/8-4 443642-96-4 IT

RL: RCT (Reactant);/RACT (Reactant or reagent)

(preparation of nucleoside aryl phosphoramidates for use as an inhibitors of hepatitis C virus NS5B polymerase, RNA-dependent RNA

polymerase, RNA viral replication and treating RNA-dependent

RNA viral inf/ections)

RN443642-29-3 CAPLUS

7H-Pyrrolo[2,3/d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-ribofuranosyl)-CN

(CA INDEX NAME) (9CI)

RN 443642-38-4 CAPLUS

4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino $\frac{1}{2}$ 1,7-dihydro-7-(2-C-methyl- β -CN D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN443642-96-4 CAPLUS

7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl-β-D-CN ribofuranosyl) - (9CI) / (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 5 OF 34 CAPLUS COPYRIGHT 2006/ACS on STN L6

AN 2005:1050841 CAPLUS

143:326574 DN

Preparation of nucleosides as prodrugs and antiviral agents TI

Roberts, Christopher D.; Keicher, Jøsse D.; Dyatkina, Natalia B. IN

Genelabs Technologies, Inc., USA PA

U.S. Pat. Appl. Publ., 58 pp., Comt.-in-part of U.S. Ser. No. 861,311. SO CODEN: USXXCO

DT Patent

English LA

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|----------------------|------------------------------|-----------------|----------|
| PATENT NO. | KIND DAYER | APPLICATION NO. | DATE |
| | /\-f | | |
| PI US 2005215511 | A1 2 0050 9 29 | US 2004-971477 | 20041021 |
| US 2005090463 | A1 /200504\28 | US 2004-861311 | 20040604 |
| US 2005101550 | A1 /20050512 | US 2004-861219 | 20040604 |
| US 2006079468 | A1 / 20060413\ | US 2004-861090 | 20040604 |
| PRAI US 2003-515153P | P / 2003 1027 \ | | |
| US 2004-861090 | A2 / 2004/0604 ` | | |
| US 2004-861219 | A2/ 200#0604 | | |
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| | / <i>l</i> | | |

McIntosh

AB Nucleosides I, wherein Y is bond, CH2, O; W-W2 are independently H, pharmaceutically acceptable prodrug; T is substituted alkyne, substituted alkene, were prepared and used for treating viral infections caused by a Flaviviridae family virus, such as hepatitis C virus. Thus, 7-(2'-C-methyl-β-D-ribofuranosyl)-4-amino-5-(2'trimethylsilylethyn-1-yl)-pyrrolo[2,3-d]pyrimidine was prepared and tested in vitro as antiviral agent against hepatitis C virus (replicon assay, % inhibition value range 35.8 - 98.2 μM). 850338-22-6P 850338-24-8P 850338-25-9P 850338-26-0P 850338-27-1P 850338-28-2P 850338-29-3P 850338-30-6P 850338-31-7P 850338-32-8P 850338-33-9P 850338-34-0P 850338-35-1P 850338-36-2P 850338-37-3P 850338-38-4P 850338-39-5P 850338-40-8P 850338-41-9P 850338-42-0P 850338-43-1P 850338-44-2P 850338-45-3P 850338-46-4P 850338-47-5P 850338-48-6P 850338-49-7P 850338-50-0P 850338-51-1P 850338-52-2P 850338-53-3P 850338-54-4P 865480-39-3P 865480-42-8P 865480-45-1P 865480-49-5P 865480-51-9P 865480-53-1P 865480-54-2P 865480-55-3P 865480-56-4P 865480-57-5P 865480-58-6P 865480-59-7P 865480-60-0P 865480-61-1P 865480-62-2P 865480-63-3P 865480-64-4P 865480-65-5P 865480-66-6P 865480-67-7P 865480-68-8P 865480-69-9P 865480-70-2P 865480-71-3P 865480-72-4P 865480-73-5P 865480-74-6P 865480-75-7P 865480-76-8P 865480-77-9P 865480-78-0P 865480-79-1P 865480-80-4P 865480-81-5P 865480-82-6P 865480-83-7P 865480-84-8P 865480-85-9P 865480-86-0P 865480-87-1P 865480-88-2P 865480-89-3P 865480-90-6P 865480-91-7P 865480-92-8P 865480-93-9P 865480-94-0P 865480-95-1P 865480-96-2P 865481-57-8P 865481-58-9P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleosides as prodrugs and antiviral agents)

RN 850338-22-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 $C = C - SiMe_3$
 $N = 0$
 $R = R$
 $R = R$
 $OH = 0$
 $OH = 0$

RN 850338-24-8 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-25-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 850338-26-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-ribofuranosyl)-5-(2-pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N \subset C$$
 $R = R$
 $R = R$

RN 850338-27-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-(4-pyridinylethynyl)- (9CI) (CA INDEX NAME)

RN 850338-28-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methoxyphenyl)ethynyl]-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-29-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

RN 850338-30-6 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-31-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-32-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-0-phosphono- β -D-ribofuranosyl)-5-(2-pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 850338-33-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-5-(4-pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-34-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methoxyphenyl)ethynyl]-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

OMe
$$H_2N \subset C$$

$$N = 0$$

$$R = R$$

$$R = 0$$

$$R = R$$

RN 850338-35-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-36-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 850338-37-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-Dribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 850338-38-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-Dribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-39-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
1]-2-C-methyl-β-D-ribofuranosyl]-5-[(trimethylsilyl)ethynyl]- (9CI)
(CA INDEX NAME)

$$NH_2$$
 $C = C - SiMe_3$
 NH_2 $O = C - SiMe_3$
 $O = C - SiMe_3$

RN 850338-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
1]-2-C-methyl-β-D-ribofuranosyl]-5-(2-pyridinylethynyl)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 850338-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl- β -D-ribofuranosyl]-5-(4-pyridinylethynyl)- (9CI) (CA INDEX NAME)

RN 850338-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
1]-2-C-methyl-β-D-ribofuranosyl]-5-[(4-methoxyphenyl)ethynyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 850338-43-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-O-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

NH2 C C O NH2

NH2 O OH

N O P OPO
$$_3$$
H2

Me OH OH

RN 850338-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-45-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,Ndimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-46-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-,

1-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-47-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-5[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-48-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-5-(2 pyridinylethynyl)- (9CI) (CA INDEX NAME)

RN 850338-49-7 CAPLUS

Absolute stereochemistry.

RN 850338-50-0 CAPLUS

RN 850338-51-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]
]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-52-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]] oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 850338-53-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]
]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-54-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-O-[hydroxy[[hydroxy(phosphonooxy)phosphi
nyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3d]pyrimidin-5-yl]-, 1-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-39-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-

5-(phenylethynyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-42-8 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 $C = C - CO_2H$
 $N = 0$
 $R = R$
 $R = 0$
 $R =$

RN 865480-45-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(1Z)-2-methoxyethenyl]-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 865480-49-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethenyl-7-(2-C-methyl-β-D-

McIntosh

ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-51-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-53-1 CAPLUS

CN Boronic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

RN 865480-54-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-, hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-55-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-0-phosphono- β -D-ribofuranosyl)-5-(phenylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-56-4 CAPLUS

RN 865480-57-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-58-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-59-7 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-60-0 CAPLUS

Absolute stereochemistry.

$$NH_2$$
 $C = C - CO_2H$
 NH_2 O OH
 R R
 O OPO_3H_2
 OH
 OH
 OH

RN 865480-61-1 CAPLUS

Absolute stereochemistry.

$$NH_2$$
 $C = C - CO_2H$
 NH_2 $O OH OPO_3H_2$
 $R R$
 $R R$
 $R R$
 $O OH$
 OH
 OH

RN 865480-62-2 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)

RN 865480-63-3 CAPLUS
CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-Dribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-ethyl ester (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 865480-64-4 CAPLUS
CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-D ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-methyl ester (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-65-5 CAPLUS
CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-ethyl
ester (9CI) (CA INDEX NAME)

RN 865480-66-6 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-methyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-67-7 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphi
nyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3d]pyrimidin-5-yl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-68-8 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-

d]pyrimidin-5-yl]-, 1-methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-69-9 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidin-4-amine, 5-[(4-fluorophenyl)] $-7-(2-C-methyl-\beta-D-ribofuranosyl)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-70-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methylphenyl)ethynyl]-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 865480-71-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-fluorophenyl)ethynyl]-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 C C N R R O OPO_3H_2 OPO_3H_2 OPO_3H_2

RN 865480-72-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methylphenyl)ethynyl]-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 865480-73-5 CAPLUS

Absolute stereochemistry.

RN 865480-74-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-fluorophenyl)ethynyl]-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

RN 865480-75-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
l]-2-C-methyl-β-D-ribofuranosyl]-5-[(4-methylphenyl)ethynyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 865480-76-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-fluorophenyl)ethynyl]-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 865480-77-9 CAPLUS

Absolute stereochemistry.

RN 865480-78-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethenyl-7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 865480-79-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(1Z)-2-methoxyethenyl]-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 865480-80-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethenyl-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-81-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl- β -D-ribofuranosyl]-5-[(1Z)-2-methoxyethenyl]- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 865480-82-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethenyl-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-83-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-5-[(1Z)-2methoxyethenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 865480-84-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-85-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl-5-0-phosphono- β -D-ribofuranosyl)-, hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-86-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-,
hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-87-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]-, hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-88-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-89-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-,
oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-90-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 865480-91-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[bis(1-methylethoxy)methyl]-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 865480-92-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[bis(1-methylethoxy)methyl]-7-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-93-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[bis(1-methylethoxy)methyl]-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-94-0 CAPLUS

CN Boronic acid, [4-amino-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-95-1 CAPLUS

CN Boronic acid, [4-amino-7-[5-O-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-96-2 CAPLUS

CN Boronic acid, [4-amino-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]ox y]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

RN 865481-57-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(1E)-2-methoxyethenyl]-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 865481-58-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[bis(1-methylethoxy)methyl]-7-[2-C-methyl-5-O-phosphono-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 443642-29-3

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of nucleosides as prodrugs and antiviral agents)

RN 443642-29-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Absolute stereochemistry.

RN 847551-48-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 847551-49-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-23-7 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-62-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865480-46-2 CAPLUS

7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L6
    ANSWER 6 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
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AN 2005:1050840 CAPLUS

DN 143:326573

ΤI Methods for preparing 7-(2'-substituted-β-D-ribofuranosyl)-4-(NR2R3)-5-(substituted ethyn-1-yl)-pyrrolo[2,3-d]pyrimidine derivatives as antiviral agents

Roberts, Christopher D.; Keicher, Jesse D.; Dyatkina, Natalia B. IN

Genelabs Technologies, Inc., USA PA

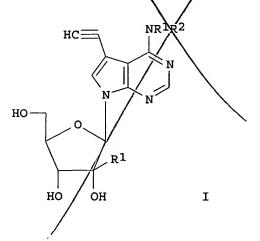
SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 861,311. CODEN: USXXCO

DT Patent

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| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| ΡI | US 2005215510 | A1 | 200509/29 | US 2004-970641 | 20041020 |
| | US 2005090463 | A1 | 20°050£28 | US 2004-861311 | 20040604 |
| | US 2006079468 | A1 | <i>2</i> 0060/413 | US 2004-861090 | 20040604 |
| PRAI | US 2003-515153P | P | / 2003 / 1027 | | |
| | US 2004-861090 | A2 / | 2004/0604 | | |
| | US 2004-861311 | A2/ | 200 4 0604 | | |
| | US 2004 602815P | ₽ | 200/40818 | | |
| os | CASREACT 143:326573 | ;/MARPA | AT 143:326573 | | |
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McIntosh

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AB
     7-(2'-Substituted-β-D-ribofuranosyl)-4-(NR2R3)-5-(substituted
     ethyn-1-yl)-pyrrolo[2,3-d]pyrimidine derivs. I, wherein R1 is alkyl,
     alkenyl, alkynyl; R2 and R3 are independently H, alkyl, amino, OH, alkoxy,
     formyl, acyl; NR2R3 form heterocyclic, were prepared as antiviral
     agents. These compds. are useful in treating viral infections
     caused by a flaviviridae family virus, such as hepatitis C
     virus (IC50 ranges from 0.09 to >50 \mu M). Thus, I (R1 = Me, R2
     = R3 = H) was prepared and tested in vitro as antiviral agent
     (IC50 = 0.09 \mu M).
IT
     677299-09-1P 677299-10-4P 851387-62-7P
     851387-69-4P 851387-70-7P 851387-71-8P
     851387-72-9P 865365-76-0P 865365-77-1P
     865365-78-2P 865365-79-3P 865365-80-6P
     865365-81-7P 865365-82-8P 865365-83-9P
     865365-84-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (methods for preparing 7-(2'-substituted-β-D-ribofuranosyl)-4-(NR2R3)-
        5-(substituted ethyn-1-yl)-pyrrolo[2,3-d]pyrimidine derivs. as
        antiviral agents)
RN
     677299-09-1 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-
    methyl-β-D-ribofuranosyl]-4-chloro-5-[(trimethylsilyl)ethynyl]- (9CI)
       (CA INDEX NAME)
```

Absolute stereochemistry.

$$\begin{array}{c} \text{Cl} & \text{C} = \text{C} - \text{SiMe}_3 \\ \text{N} & \text{N} & \text{Cl} \\ \text{N} & \text{R} & \text{R} \\ \text{OH} & \text{OCl} \\ \end{array}$$

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RN 677299-10-4 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)
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RN 851387-62-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-69-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-ribofuranosyl)-5-(1-propynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-70-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(1-butynyl)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 851387-71-8 CAPLUS

CN 2-Propyn-1-ol, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7Hpyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-72-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3-amino-1-propynyl)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865365-76-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-ethynyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 865365-77-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-ethynyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865365-79-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-5[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c} NH_2 & C = C - SiMe_3 \\ N & R & R \\ N & O & C1 \\ OH & OC1 \\ \end{array}$$

RN 865365-80-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-5-(3,3-diethoxy-l-propynyl)- (9CI) (CA INDEX NAME)

RN 865365-81-7 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c} NH_2 \\ NH$$

RN 865365-82-8 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI)
 (CA INDEX NAME)

RN 865365-83-9 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, ethyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865365-84-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-5-(phenylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-48-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)

RN 847551-49-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-22-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:824501 CAPLUS

DN 143:212123

TI Preparation of 2'-C-methyl nucleoside derivatives and their uses for the treatment of hepatitis C viral infection

IN Reddy, K. Raja; Erion, Mark D.

PA USA

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SO
     U.S. Pat. Appl. Publ., 84 pp.
     CODEN: USXXCO
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     Patent
     English
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     PATENT NO.
                          KIND
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                                              APPLICATION NO.
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                           A3
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             CN, CO, CR CU, CZ, PE, PK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
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             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
             SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
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PRAI US 2004-544743P
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                                 2004072
     US 2004-9Ø3215
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     US 2005-Ø52527P
                           P
                                  20050211
     MARPAT 143:212123
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AB 2'-C-Me nucleosides I, wherein B is purine nucleobase; V is monocyclic aryl, monocyclic heteroaryl; W and W' are independently monocyclic aryl, monocyclic heteroaryl, H, alkyl, heterocycloalkyl, aralkyl; Z is CN, acyl, amide, carboxylate, sulfonyl, sulfonamide, OH, sulfide, alkyl, aryl, heterocycloalkyl, aralkyl, thio-ester; V and Z are connected via an addnl. 3-5 atoms to form a cyclic group optionally containing hero-atom; Z and W are connected via an addnl. 3-5 atoms to form a cyclic group optionally containing hero-atom; W and W' are connected via an addnl. 2-5 atoms to form a cyclic group optionally containing 0-2 hero-atoms, were prepared and used for the treatment of hepatitis C viral infection. Thus, nucleoside II was prepared and tested in mice as hepatitis C antiviral agent. The prodrug analogs are tested for activation in human liver microsomes and in rat liver microsomes activation (250 µM). Nucleoside analogs and their prodrugs were evaluated for their ability to generate NTPs in freshly isolated rat hepatocytes. It is generally accepted that the NTP (0.1-160 nmol/g) form of a nucleoside is the active antiviral agent.

TT

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IT
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     862188-64-5P 862188-65-6P 862188-66-7P
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     862189-45-5P 862189-46-6P 862189-51-3P
     862190-46-3P 862300-23-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (preparation of 2'-C-Me nucleoside derivs. and their uses for the treatment
        of hepatitis C viral infection)
RN
     862188-61-2 CAPLUS
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-chlorophenyl)-2-
CN
     oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-
     (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN 862188-62-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2,5-difluorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-63-4 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(3-chloro-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 862188-64-5 CAPLUS

Absolute stereochemistry.

RN 862188-65-6 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-66-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-,
monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-65-6 CMF C21 H24 Cl N4 O7 P

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

RN 862188-67-8 CAPLUS

Absolute stereochemistry.

RN 862188-68-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-fluorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-69-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-bromophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-70-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-bromophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-71-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(5-bromo-3pyridinyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]- (9CI) (CA INDEX NAME) Absolute stereochemistry.

RN 862188-72-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2R,4S)-2-oxido-4-phenyl-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-73-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[(2R,4S,5R)-2-oxido-4,5-diphenyl-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-74-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-chlorophenyl)-2-

McIntosh

oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-75-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2R,4S)-4-(5-bromo-2-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-76-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[$(2\alpha,4\alpha,6\alpha)$ -2-oxido-4,6-diphenyl-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-77-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-[3,5-bis(trifluoromethyl)phenyl]-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-78-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2R,4S)-4-(2-bromo-4pyridinyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-79-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2,4-dichlorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 862188-80-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2R,4S)-2-oxido-4[3-(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-81-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-[(2S,4S,5R)-2-oxido-4,5-diphenyl-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-82-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4R,5R)-4-(2-chlorophenyl)-5-methoxy-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 862188-83-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4R,5S)-4-(2-chlorophenyl)5-methoxy-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-84-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(2-bromo-5-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-85-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3,5-dichlorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

RN 862188-86-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(3,5-difluorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-87-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4[2-(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-88-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4(4-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 862188-89-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-bromo-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-90-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-(3-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-91-8 CAPLUS

Absolute stereochemistry.

McIntosh

RN 862188-92-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2S,4R)-2-oxido-4-phenyl-1,3,2-dioxaphosphorinan-2-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-93-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(4-chlorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-94-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(2S,4R)-4-(2,3-difluorophenyl)2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

RN 862188-95-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2-fluoro-5-methoxyphenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-96-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2-chloro-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-97-4 CAPLUS

RN 862188-98-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(2-cyanophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862188-99-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-hexahydro-2-oxido-4-phenyl-4H-1,3,2-benzodioxaphosphorin-2-yl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-00-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2S,4R)-4-(3-cyanophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

RN 862189-01-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-02-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-03-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4S)-4-(5-bromo-2-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-(9CI) (CA INDEX NAME)

RN 862189-04-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(3-bromophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-05-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4S)-4-(3-chloro-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-06-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(2,5-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

RN 862189-07-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4S)-4-(2-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-08-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2R,4S)-2-oxido-4-[2-(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-09-1 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(3,5-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro-(9CI) (CA INDEX NAME)

RN 862189-10-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(3,5-dichlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c} 0 \\ N \\ N \\ Me \end{array} \begin{array}{c} 0 \\ R \\ R \\ OH \end{array} \begin{array}{c} 0 \\ OH \\ OH \end{array} \begin{array}{c} C1 \\ C1 \\ \end{array}$$

RN 862189-11-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2R,4S)-2-oxido-4-(4-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-12-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4S)-4-(3-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

RN 862189-13-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2R,4S)-4-(3-bromo-4-fluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-14-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2S,4R)-2-oxido-4-phenyl-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-15-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0-[(2S,4R,5S)-2-oxido-4,5-diphenyl-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 862189-16-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,6R)-4,4-dimethyl-1oxido-6-phenyl-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-Dribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-17-1 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2R,4R,5R)-4-(3-chlorophenyl)-5-methoxy-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methylβ-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-18-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(2,3-difluorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

RN 862189-19-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-0-[(2S,4R)-4-(2-bromophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-20-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(3,4-dichlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-21-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-[3,5-bis(trifluoromethyl)phenyl]-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

RN 862189-22-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2S,4R)-2-oxido-4-[3-(trifluoromethyl)phenyl]-1,3,2-dioxaphosphorinan-2yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-23-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(2,4-dichlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-24-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[5-O-[(2S,4R)-4-(5-bromo-3-pyridinyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-1,7-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-25-1 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0[(2S,4R)-2-oxido-4-(3-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-38-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-0-acetyl-2-C-methyl-5-0-[(2S,4R)-2-oxido-4-(4-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-45-5 CAPLUS

CN L-Valine, 3'-ester with 7-[5-0-[(2S,4R)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-

d)pyrimidin-4-amine, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 862189-44-4 CMF C26 H33 Cl N5 O8 P

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 862189-46-6 CAPLUS

RN 862189-51-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[2-C-methyl-5-0-[(2R,4S)-2-oxido-4-(2-pyridinyl)-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862190-46-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-,
mono(trifluoromethanesulfonate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 862188-65-6 CMF C21 H24 Cl N4 O7 P

CM 2

CRN 1493-13-6 CMF C H F3 O3 S

RN 862300-23-0 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-O-[(2 α ,4 β ,6 β)-2-oxido-4,6-diphenyl-1,3,2-dioxaphosphorinan-2-yl]- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry. Rotation (-).

RN 443642-33-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-38-4 CAPLUS
CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 862189-42-2 CAPLUS

CN L-Valine, N-[(1,1-dimethylethoxy)carbonyl]-, 3'-ester with
7-[5-O-[(2R,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 862189-43-3 CAPLUS

CN L-Valine, 3'-ester with 7-[5-0-[(2R,4S)-4-(3-chlorophenyl)-2-oxido-1,3,2-dioxaphosphorinan-2-yl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

RN862189-50-2 CAPLUS

7H-Pyrrolo[2,3-d]pyrimidine, 4-azido-7-(2-C-methyl-β-D-ribofuranosyl)-CN (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:474924 CAPLUS

143:7941 DN

TI Preparation of nucleoside derivatives for treating Hepatitis C virus infection

IN Roberts, Christopher D.; Keicher, Jesse; Dyatkina, Natalia B.

PA

SO U.S. Pat. Appl. Publ., 25 pp., Cont.-in-part of U.S. Ser. No. 676,956. CODEN: USXXCO

DTPatent

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| ΡI | US 2005119200 | A1 | 2 \ 05 % 602 | US 2004-821638 | 20040408 |
| | US 2004147464 | A1 | 20\04,0729 | US 2003-676956 | 20030930 |
| PRAI | US 2002-415222P | P | 20020930 | | |
| | US 2003-443169P | P | 200(30129 | | |
| | US 2003-676956 | A2 | 20/03/0930 | | |
| os | CASREACT 143:7941; | MARPAT | 143/:7/941 | | |
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AB Disclosed are nucleosides I, wherein W-W2 are independently hydrogen and a pharmaceutically acceptable prodrug; R is hydrogen, alkyl; R1 is hydrogen, alkyl, alkenyl, alkenyl, alkynyl; Y is a bond, CH2, O; Y' is hydrogen, halo, hydroxyl, thio-alkyl, amino; Z is acyl, cyano, carboxyl, carboxyl ester, amide, halo, B(OH)2, imine, nitro, alkenyl, acetylenyl and methods for treating viral infections caused by a Flaviviridae family virus, such as hepatitis C virus. Thus, nucleoside II was prepared and used for the treatment of Hepatitis C virus infection. In general, compds. of this invention will be administered as pharmaceutical compns. by any one of the following routes: oral, systemic (e.g., transdermal, intranasal or by suppository), or parenteral (e.g., i.m., i.v. or s.c.) administration. The preferred manner of administration is oral using a convenient daily dosage regimen that can be adjusted according to the degree of affliction. Compns. can take the form of tablets, pills, capsules, semi-solids, powders, sustained release formulations, solns., suspensions, elixirs, aerosols, or any other appropriate compns. Another preferred manner for administering compds. of this invention is inhalation. This is an effective method for delivering a therapeutic agent directly to the respiratory tract, in particular for the treatment of diseases such as asthma and similar or related respiratory tract disorders.

IT 677298-90-7P 677299-07-9P 677299-11-5P 852235-63-3P 852235-64-4P 852235-65-5P 852235-66-6P 852235-67-7P 852235-68-8P 852235-69-9P 852235-70-2P 852235-71-3P 852235-72-4P 852235-73-5P 852235-77-9P

852235-78-0P 852235-79-1P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleoside derivs. for treating Hepatitis C virus infection)

RN 677298-90-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(hydroxyamino)-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 677299-07-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethynyl-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-11-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethenyl-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-63-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-5-(phenylethynyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 852235-64-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-5-(2-pyridinylethynyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-65-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-[(4-fluorophenyl)ethynyl]-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

RN 852235-66-6 CAPLUS
CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-5-[(4-methylphenyl)ethynyl]7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-67-7 CAPLUS
CN 2-Propynoic acid, 3-[4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

RN 852235-68-8 CAPLUS

CN 2-Propynoic acid, 3-[4-(hydroxyamino)-7-(2-C-methyl-β-Dribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-69-9 CAPLUS

CN 2-Propynamide, 3-[4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-70-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-71-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-72-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 852235-73-5 CAPLUS

CN Boronic acid, [4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)-7H-

McIntosh

pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-74-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-(2,2-difluoroethenyl)-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-75-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-5-[(1Z)-2-methoxyethenyl]-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 852235-76-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-5-nitro-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-77-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethynyl-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, O-methyloxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852235-78-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-5-nitro-, 0-methyloxime (9CI) (CA INDEX NAME)

RN 852235-79-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-(methoxyamino)-7-(2-Cmethyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-09-1 CAPLUS

Absolute stereochemistry.

$$\begin{array}{c} \text{Cl} & \text{C} = \text{C} - \text{SiMe}_3 \\ \text{N} & \text{R} & \text{R} \\ \text{OH} & \text{OCl} \\ \text{Cl} & \text{Cl} \\ \end{array}$$

RN 677299-10-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

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     ANSWER 9 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
AN
     2005:431387 CAPLUS
DN
     142:447384
     Preparation of amino acid-containing nucleosides for treating
ΤI
     viral infections
IN
     Keicher, Jesse D.; Roberts, Christopher D.; Dyatkina, Natalia B.
     Genelabs Technologies, Inc., USA
PA
SO
     U.S. Pat. Appl. Publ.,
                            28 pp., Cont.-in-part of U.S. Ser. No. 861,090.
     CODEN: USXXCO
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AB Disclosed are nucleosides I, wherein Y is bond, -CH2- -O-; W-W2 are independently H, and a pharmaceutically acceptable prodrug; compns. and

methods for treating viral infections caused by a Flaviviridae family virus, such as Hepatitis C virus. Thus, I (Y = O, W-W2 = H) was prepared and tested as antiviral agent against Hepatitis C virus (IC50 vales range from 0.09 to > 20 μM). IT 851387-62-7P 851387-64-9P 851387-65-0P 851387-66-1P 851387-67-2P 851387-68-3P 851387-69-4P 851387-70-7P 851387-71-8P 851387-72-9P 851387-73-0P 851387-74-1P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (preparation of amino acid-containing nucleosides for treating viral infections) RN 851387-62-7 CAPLUS 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl-β-D-CN ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-64-9 CAPLUS
CN L-Valine, 3'-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-65-0 CAPLUS
CN L-Alanine, 3'-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

RN 851387-66-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-0-(2,2-dimethyl-1-oxopropyl)-2-C-methyl-β-D-ribofuranosyl]-5-ethynyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-67-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]]] -2-C-methylβ-D-ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-68-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 851387-69-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-(1-propynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-70-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(1-butynyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-71-8 CAPLUS

CN 2-Propyn-1-ol, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

RN 851387-72-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3-amino-1-propynyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-73-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-74-1 CAPLUS

CN L-Alanine, N-(hydroxyphenoxyphosphinyl)-, (P→5')-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

IT 847551-25-1P 847551-48-8P 847551-49-9P

850338-22-6P 851387-63-8P 851387-75-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of amino acid-containing nucleosides for treating viral infections)

RN 847551-25-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-48-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 847551-49-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-22-6 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-63-8 CAPLUS
CN L-Valine, N-[(1,1-dimethylethoxy)carbonyl]-, 5'-ester with
 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin4-amine (9CI) (CA INDEX NAME)

RN 851387-75-2 CAPLUS

CN L-Alanine, N-[(1,1-dimethylethoxy)carbonyl]-, 3'-ester with
5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin4-amine (9CI) (CA INDEX NAME)

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TI
     Preparation of amino acid-containing nucleosides for treating
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     Keicher, Jesse D.; Roberts Christopher Don; Dyatkina, Natalia B.
IN
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GI
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$$W-Y$$
 $M=0$
 $M=0$

Ι

AB Disclosed are nucleosides I, wherein Y is bond, -CH2- -O-; W-W2 are independently H, and a pharmaceutically acceptable prodrug; compns. and methods for treating viral infections caused by a Flaviviridae family virus, such as Hepatitis C virus. Thus, I (Y = O, W-W2 = H) was prepared and tested as antiviral agent against Hepatitis C virus (IC50 vales range from 0.09 to > 20 μ M). 851387-62-7P 851387-64-9P 851387-65-0P IT 851387-66-1P 851387-67-2P 851387-68-3P 851387-69-4P 851387-70-7P 851387-71-8P 851387-72-9P 851387-73-0P 851387-74-1P 851387-76-3P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of amino acid-containing nucleosides for treating viral infections) RN851387-62-7 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

RN 851387-64-9 CAPLUS

CN L-Valine, 3'-ester with 5-ethynyl-7-(2-C-methyl- β -D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-65-0 CAPLUS

CN L-Alanine, 3'-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-66-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-0-(2,2-dimethyl-1-oxopropyl)-2-C-methyl- β -D-ribofuranosyl]-5-ethynyl- (9CI) (CA INDEX NAME)

RN 851387-67-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-68-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 C CH NH_2 C CH NH_2 OPO_3H_2 OPO_3H_2 OPO_3H_2 OH OH

RN 851387-69-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-5-(1-propynyl)- (9CI) (CA INDEX NAME)

RN 851387-70-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(1-butynyl)-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-71-8 CAPLUS

CN 2-Propyn-1-ol, 3-[4-amino-7-(2-C-methyl- β -D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-72-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3-amino-1-propynyl)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 851387-73-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-ethynyl-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-74-1 CAPLUS
CN L-Alanine, N-(hydroxyphenoxyphosphinyl)-, (P→5')-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 851387-76-3 CAPLUS
CN L-Alanine, N-(hydroxyphenoxyphosphinyl)-, methyl ester, 5'-ester with 5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (9CI) (CA INDEX NAME)

methyl-β-D-ribofuranosyl]-4-chloro-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-48-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-49-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-22-6 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 $C = C - SiMe_3$
 $N = 0$
 $R = R$
 $OH = 0$
 $OH = 0$

RN 851387-63-8 CAPLUS
CN L-Valine, N-[(1,1-dimethylethoxy)carbonyl]-, 5'-ester with
5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin4-amine (9CI) (CA INDEX NAME)

RN 851387-75-2 CAPLUS

CN L-Alanine, N-[(1,1-dimethylethoxy)carbonyl]-, 3'-ester with
5-ethynyl-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin4-amine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:369125 CAPLUS

DN 142:411590

TI Preparation of nucleosides for treating viral infections caused by a Flaviviridae family virus

IN Roberts, Christopher D.; Keicher, Jesse D.

PA Genelabs Technologies, Inc., USA

SO U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 5

| ran. | PATENT NO. | KIND PATE | APPLICATION NO. | DATE |
|------|-----------------------------|----------------------------|-----------------------------------|----------------------|
| PI | US 2005090463 CA 2543116 | A1 20050428 AA 20060519 | US 2004-861311 CA 2004-2543116 | 20040604 |
| | WO 2005044835 | A1 2003,0519 | WO 2004-US34756 | 20041020 20041020 |
| | W: AE, AG, AL | , AM, AT, AU, AZ, | BA, BB, BG, BR, BW, BY, | BZ, CA, CH, |

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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                                             US 2004-971477
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                                                                     20041021
PRAI US 2003-515153P
                           P
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     US 2004-861090
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                          Α
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     US 2004-861311
                          Α
     US 2004-602815P
                                 20040818
                          Ρ
     WO 2004-US34756
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                                 20041020
     WO 2004-US35271
                          W
                                 20041021
os
     MARPAT 142:411590
GI
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$$R-C$$
 NH_2
 N

Ι

AB Disclosed are nucleosides I, wherein selected from the group consisting of silyl, amide, alkoxyalkyl, heteroaryl, substituted Ph, alkenyl, alkynyl, alkoxy, acyl, acylamino, acyloxy, aminoacyl, amidino, amino, carboxyl, carboxyl ester, cyano, cycloalkyl, cyclo-alkoxy, guanidino, halo,

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heteroaryl, hydrazino, hydroxyl, nitro, thiol, sulfonyl; and methods for
     treating viral infections caused by a Flaviviridae family
     virus, such as Hepatitis C virus. Thus, I (R = CONH2, Y
     = 0, W-W2 = H) was prepared and tested as antiviral agent against
     Hepatitis C virus. Y is CH or O; each of W-W2 is independently
     hydrogen and a pharmaceutically acceptable prodrug; R is. Title
     nucleosides in combination with the administration of a therapeutically
     effective amount of one ore more agents active against HCV are
     reported.
IT
     850338-22-6P 850338-24-8P 850338-25-9P
     850338-26-0P 850338-27-1P 850338-28-2P
     850338-29-3P 850338-30-6P 850338-31-7P
     850338-32-8P 850338-33-9P 850338-34-0P
     850338-35-1P 850338-36-2P 850338-37-3P
     850338-38-4P 850338-39-5P 850338-40-8P
     850338-41-9P 850338-42-0P 850338-43-1P
     850338-44-2P 850338-45-3P 850338-46-4P
     850338-47-5P 850338-48-6P 850338-49-7P
     850338-50-0P 850338-51-1P 850338-52-2P
     850338-53-3P 850338-54-4P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (preparation of nucleosides for treating viral infections caused
        by flaviviridae family virus)
     850338-22-6 CAPLUS
RN
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-\beta-D-ribofuranosyl)-
CN
     5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

RN 850338-24-8 CAPLUS
CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7Hpyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

RN 850338-25-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-26-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-(2-pyridinylethynyl)- (9CI) (CA INDEX NAME)

RN 850338-27-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)5-(4-pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-28-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methoxyphenyl)ethynyl]-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-29-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

RN 850338-30-6 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-31-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-32-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)-5-(2-pyridinylethynyl)- (9CI) (CA INDEX NAME)

RN 850338-33-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)-5-(4-pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-34-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-[(4-methoxyphenyl)ethynyl]-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 850338-35-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 850338-36-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-(2-C-methyl-5-0-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 850338-37-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-38-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-5-O-phosphono-β-Dribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, 1-hydrazide (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 850338-39-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
1]-2-C-methyl-β-D-ribofuranosyl]-5-[(trimethylsilyl)ethynyl]- (9CI)
(CA INDEX NAME)

RN 850338-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
l]-2-C-methyl-β-D-ribofuranosyl]-5-(2-pyridinylethynyl)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 850338-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
l]-2-C-methyl-β-D-ribofuranosyl]-5-(4-pyridinylethynyl)- (9CI) (CA
INDEX NAME)

RN 850338-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny
l]-2-C-methyl-β-D-ribofuranosyl]-5-[(4-methoxyphenyl)ethynyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 850338-43-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphiny1]-2-Cmethyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI)
 (CA INDEX NAME)

RN 850338-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-[5-0[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-45-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-O-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-46-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-0-[hydroxy(phosphonooxy)phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-,

1-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-47-5 CAPLUS

Absolute stereochemistry.

$$\begin{array}{c} \text{NH}_2 & \text{C} \\ \text{C} \\ \text{SiMe}_3 \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{OH} \\ \text{OH} \\ \text{OH} \\ \text{OH} \\ \end{array}$$

RN 850338-48-6 CAPLUS

RN 850338-49-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-5-(4pyridinylethynyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-50-0 CAPLUS

RN 850338-51-1 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]
]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-52-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-(3,3-diethoxy-1-propynyl)-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 850338-53-3 CAPLUS

CN 2-Propynamide, 3-[4-amino-7-[5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]
]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 850338-54-4 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-[5-O-[hydroxy[[hydroxy(phosphonooxy)phosphi
nyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3d]pyrimidin-5-yl]-, 1-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

IT 847551-25-1P 847551-48-8P 847551-49-9P 850338-23-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nucleosides for treating viral infections caused by flaviviridae family virus)

RN 847551-25-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-iodo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-48-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-49-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

RN 850338-23-7 CAPLUS

CN 2-Propynoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, ethyl ester (9CI) (CA INDEX NAME)

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ANSWER 12 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     2005:216831 CAPLUS
DN
     142:298286
     Preparation of tricyclic nucleosides or nucleotides as antiviral
TI
     and antitumor therapeutic agents
IN
     Cook, Phillip Dan; Ewing, Gregory; Jin, Yi; Lambert, John; Prhavc, Marija;
     Rajappan, Vasanthakumar; Rajwanshi, Vivek K.; Sakthivel, Kandasamy
PA
     Biota, Inc., USA-
     PCT Int. Appl., 106 pp.
SO
     CODEN: PIXXD2
DT
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LA
     English
FAN.CNT 1
     PATENT NO.
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                                            APPLICATION NO.
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             LK, LR, LS, LT, LV, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
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                                                                     20040827
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                                                                     20040827
     EP 1660511
                           A2
                                 20060531
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                                                                     20040827
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     NO 2006000979
                           A
                                 20060502
                                             NO 2006-979
                                                                     20060228
PRAI US 2003-498425P
                           P
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     WO 2004-US27819
                           W
                                 20040827
os
     MARPAT 142:298286
GI
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AB Nucleosides and nucleotides containing a tricyclic base portion I, wherein A is O, S, CH2, NH, CHF, CF2; R1, R2, R2', R3, R3', R4 are independently H, F, Cl, iodo, Br, OH, SH, NH2, NHOH, NHNH2, N3, COOH, CN, CONH2, CSNH2, COOR, R, OR, SR, SSR, NHR, NR2; R4' is L-R5; L is O, S, NH, NR, CY2S, CY2NH, CY2, CY2CY2, CY2OCY2, CY2SCY2, CY2NHCY2; Y is H, F, Cl, Br, alkyl, alkenyl, alkynyl, R4' is OH, monophosphate, diphosphate, triphosphate; B is substituted tricyclic nucleobase derivs.; R is alkyl, alkenyl, alkynyl, aryl, acyl, aralkyl; thereof are useful for treating infectious diseases and proliferative disorders, such as viral infections or cancer resp. Thus, nucleotide II was prepared and tested in vitro as polymerase inhibitor, antiviral, and antitumor therapeutic agent. Title compds. were typically cytotoxic in the range of 30 to > 100 µM. showed inhibitory of NS5B in the range of 100 to >1000 nM. Selected examples displayed IC50 values in the range of to 100 nM. IT 847551-17-1P 847551-39-7P 847551-51-3P 847551-53-5P 847551-55-7P 847551-56-8P 847551-63-7P 847551-65-9P 847551-67-1P 847551-68-2P 847551-75-1P 847551-76-2P 847551-78-4P 847551-79-5P 847551-81-9P 847551-83-1P 847551-84-2P 847551-85-3P 847551-87-5P 847551-88-6P 847551-90-0P 847551-91-1P 847551-93-3P 847551-94-4P

847551-95-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic nucleosides or nucleotides as antiviral and antitumor therapeutic agents)

RN 847551-17-1 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 3,7,8,9-tetrahydro-2-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-39-7 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3,8,9-tetrahydro-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-51-3 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)-9-methyl- (9CI) (CA INDEX NAME)

RN 847551-53-5 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)-8-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-55-7 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-9-methoxy-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-56-8 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 8-bromo-2,3,8,9-tetrahydro-9-methoxy-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-63-7 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-fluoro-2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-65-9 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulen-7-amine, 2-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

RN 847551-67-1 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 7-methoxy-2-(2,3,5-tri-O-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-68-2 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 7-methoxy-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 847551-75-1 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)-4-(methylthio)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-76-2 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-chloro-2,3,8,9-tetrahydro-9-(methylthio)-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-78-4 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-4-(methylamino)-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-79-5 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-4-methoxy-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-81-9 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulene-7-thione, 2,3-dihydro-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-83-1 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 3,7-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-84-2 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 3,7,8,9-tetrahydro-9-methoxy-2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-85-3 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 847551-87-5 CAPLUS

CN 7-Oxa-2,3,5,6-tetraazabenz[cd]azulene, 2,3,8,9-tetrahydro-2-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-88-6 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 3,7,8,9-tetrahydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 847551-90-0 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-amino-2,3-dihydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-91-1 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3,8,9-tetrahydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-93-3 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-fluoro-2,3-dihydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 847551-94-4 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]-9-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-95-5 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]-9-methoxy- (9CI) (CA INDEX NAME)

IT 847551-69-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of tricyclic nucleosides or nucleotides as antiviral and antitumor therapeutic agents)

RN 847551-69-3 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene-4,7(5H,6H)-dione, 2-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

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847551-05-7P 847551-06-8P 847551-07-9P
IT
     847551-08-0P 847551-09-1P 847551-13-7P
     847551-14-8P 847551-15-9P 847551-16-0P
     847551-25-1P 847551-26-2P 847551-27-3P
     847551-28-4P 847551-48-8P 847551-49-9P
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     847551-57-9P 847551-58-0P 847551-59-1P
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     847551-71-7P 847551-72-8P 847551-73-9P
     847551-74-0P 847551-77-3P 847551-80-8P
     847551-82-0P 847551-96-6P 847551-97-7P
     847655-24-7P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of tricyclic nucleosides or nucleotides as antiviral
       and antitumor therapeutic agents)
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RN 847551-05-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl- β -D-ribofuranosyl]-4-chloro-5-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-06-8 CAPLUS

Absolute stereochemistry.

RN 847551-07-9 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-[2-[7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-7H-pyrrolo[2,3-d]pyrimidin-5-yl]ethoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

RN 847551-08-0 CAPLUS

CN 7-Oxa-2,3,5,6-tetraazabenz[cd]azulene, 2-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl- β -D-ribofuranosyl]-2,3,8,9-tetrahydro- (9CI) (CA INDEX NAME)

RN 847551-09-1 CAPLUS

CN 7-0xa-2,3,5,6-tetraazabenz[cd]azulene, 2,3,8,9-tetrahydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-13-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro-5-[3-[[(1,1dimethylethyl)dimethylsilyl]oxy]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-15-9 CAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 2-[3-[7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-7H-pyrrolo[2,3-d]pyrimidin-5-yl]propyl]- (9CI) (CA INDEX NAME)

RN 847551-16-0 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 2-[3,5-bis-O-[(3,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-3,7,8,9-tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-25-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-iodo-(9CI) (CA INDEX NAME)

RN 847551-26-2 CAPLUS

Absolute stereochemistry.

RN 847551-27-3 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-2,3-dihydro-(9CI) (CA INDEX NAME)

RN 847551-28-4 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-48-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-49-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-iodo-7-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-50-2 CAPLUS

CN 2-Butenoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, methyl ester, (2Z)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 847551-52-4 CAPLUS

CN 2-Propenoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7Hpyrrolo[2,3-d]pyrimidin-5-yl]-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

Double bond geometry unknown.

RN 847551-54-6 CAPLUS

CN 2-Propenoic acid, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7Hpyrrolo[2,3-d]pyrimidin-5-yl]-3-methoxy-, methyl ester, (2E)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 847551-57-9 CAPLUS

CN Propanamide, N-[7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-iodo-7H-pyrrolo[2,3-d]pyrimidin-2-yl]-2,2-dimethyl-(9CI) (CA INDEX NAME)

RN 847551-58-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-5-iodo-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-59-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 5-iodo-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-60-4 CAPLUS

CN 2-Propenoic acid, 3-[2,4-diamino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, methyl ester, (2E)- (9CI) (CA INDEX NAME)

McIntosh

Absolute stereochemistry.

Double bond geometry as shown.

RN 847551-61-5 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-amino-2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-62-6 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-amino-2-[5-0-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl- β -D-ribofuranosyl]-2,3-dihydro- (9CI) (CA INDEX NAME)

RN 847551-64-8 CAPLUS
CN 2-Propenenitrile, 3-[4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 847551-66-0 CAPLUS CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2,3-dihydro-2-(2,3,5-tri-0-acetyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-70-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-2,4-dichloro-5-iodo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-71-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-0-[(2,4dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-2-chloro-5-iodo(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-72-8 CAPLUS

CN 2-Propenoic acid, 3-[4-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-2-chloro-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-,
methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 847551-73-9 CAPLUS
CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 2-[3,5-bis-O-[(3,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-74-0 CAPLUS CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-chloro-2,3-dihydro-2-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 847551-77-3 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulen-7-one, 4-chloro-2-[5-0-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl- β -D-ribofuranosyl]-2,3-dihydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-80-8 CAPLUS

CN 7H-2,3,5,6-Tetraazabenz[cd]azulene-7-thione, 2,3-dihydro-2-(2,3,5-tri-0acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 847551-82-0 CAPLUS

CN 2H-2,3,5,6-Tetraazabenz[cd]azulene, 2-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-3,7-dihydro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-96-6 CAPLUS

CN 7-Oxa-2,3,5,6-tetraazabenz[cd]azulene, 6-acetyl-2-(2,3-di-O-acetyl-2-C-methyl-β-D-ribofuranosyl)-2,6,8,9-tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847551-97-7 CAPLUS

CN 2-Propenoic acid, 3-[4-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl- β -D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 847655-24-7 CAPLUS

CN Borate(4-), trihydro[2,3,8,9-tetrahydro-2-[5-O [[[(difluorophosphonomethyl)hydroxyphosphinyl]oxy]hydroxyphosphino κP]-2-C-methyl-β-D-ribofuranosyl]-7-oxa-2,3,5,6 tetraazabenz[cd]azulenato(4-)]-, tetrahydrogen, (T-4)- (9CI) (CA INDEX NAME)

●4 H+

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     ANSWER 13 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
AN
     2005:216597 CAPLUS
DN
     142:291323
     Compositions and methods for the treatment of severe acute respiratory
TI
     syndrome (SARS)
     Hardee, Grég; Dellamary, Luis
IN
     Isis Pharmaceuticals, Inc., USA
PA
     PCT Int. App]/., 217 pp.
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     CODEN: PIXXD2
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     English
FAN.CNT 1
     PATENT NO.
                                            APPLICATION NO.
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             SN, TD, TG
PRAI US 2003-472774P
                          Р
                                20030521
     The invention provides compns. and methods for treating a coronavirus
     infection, especially a SARS CoV infection. The compns. comprise an
     antiviral nucleoside or mimetic thereof, or an antiviral
     antisense agent, in a form suitable for pulmonary or nasal delivery.
     methods comprise administration to a patient in need thereof the effective
     amount of an antiviral composition by pulmonary or nasal instillation.
     139209-26-0 141232-24-8 443642-28-2
IT
     443642-29-3 443642-33-9 443642-34-0
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    847655-35-0 847655-36-1
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
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139209-26-0 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

(compns. and methods for treatment of severe acute respiratory

Absolute stereochemistry.

syndrome)

RN

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-28-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-Darabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-29-3 CAPLUS

Absolute stereochemistry. Rotation (-).

RN 443642-33-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 443642-43-1 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidin-4-amine, $7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl-<math>\beta$ -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 443642-45-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-46-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-47-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-48-6 CAPLUS

Absolute stereochemistry.

RN 443642-49-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-5-methyl-7-(2-C-methyl-2-O-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-53-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-56-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-60-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(hydroxymethyl)-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-63-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443642-66-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl-β-D-erythropentofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-67-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl- β -D-threopentofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-80-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-3-fluoro-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-83-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-2-O-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-96-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-98-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-arabinofuranosyl]- (9CI)
(CA INDEX NAME)

RN 443643-09-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

NH2

N O OH OPO
$$_3$$
H2

N O P OH OPO $_3$ H2

OH OPO $_4$ H2

OH OH OH

RN 443643-11-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-5-methyl(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-17-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443643-26-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-28-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-ethyl-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-29-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-2-0-methyl-β-D-ribofuranosyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-31-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methyl-2-Omethyl-β-D-ribofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-37-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-deoxy-3-fluoro-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-35-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3-0-(1-oxooctyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 582313-49-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl-3-0-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-51-7 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3,5-bis-O-(1-oxooctyl)β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 790240-68-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-5-chloro-1,7-dihydro-7-(2-Cmethyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-47-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-3-O-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-50-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-methoxy-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-53-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3-O-[7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]-β-D-

ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 847651-64-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-fluoro-5-O-(4-methylbenzoyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 847651-65-4 CAPLUS

Absolute stereochemistry.

RN 847651-75-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl- β -D-arabinofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-78-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbothioamide, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-85-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-[5-O-[hydroxy[[hydroxy(phosphonoox
y)phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-arabinofuranosyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 847651-88-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 2,4-difluoro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847651-92-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(aminomethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847652-03-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-[2-C-methyl-5-O-phosphono-

 β -D-ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847652-12-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-3,3-difluoro-2-C-methylβ-D-erythro-pentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847655-34-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(5-0-acetyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847655-35-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3,5-di-0-acetyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847655-36-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-ol, 2-amino-7-(2-C-methyl-β-Dribofuranosyl)-, 4-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

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L6
      ANSWER 14 OF 34 CAPLUS COPYRIGHT 2006 ACS on SIN
AN
      2005:74691 CAPLUS
DN
      142:336574
ΤI
      Synthesis of 2'-β-C-methyl toyocamycin and sangivamycin analogs as
      potential HCV inhibitors
     Ding, Yili; An, Haoyun; Hong, Zhi; Girardet, Jean-Luc Valeant Pharmaceuticals, Inc., Costa Mesa, A, 92626, USA Bioorganic & Medicinal Chemistry Letters (2005), 15(3), 725-727
ΑU
CS
SO
      CODEN: BMCLE8; ISSN: 0960-894X
PB
      Elsevier B.V.
DT
      Journal
LA
      English
      CASREACT 142:336574
os
      Coupling reaction of 2-β-C-methyl-1,2,3,4-tetra-O-benzoyl-D-
AB
      ribofuranose with 4-amino-6-bromo-5-cyanopyrrolo[2,3-d]pyrimidine,
      followed by debromination and debenzoylation, gave the 2'-β-C-Me
      toyocamycin in high yield. Based on this result, a series of 2'-\beta-C-methyl-4-substituted toyocamycin and sangivamycin analogs were
      synthesized for biol. screening as potential inhibitors of HCV
      RNA replication.
IT
      141232-24-8P 565455-19-8P 677298-90-7P
      677298-94-1P 848645-25-0P 848645-29-4P
      848645-30-7P
     RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic
```

preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (synthesis of 2'- β -C-Me toyocamycin and sangivamycin analogs via

(synthesis of 2'- β -C-Me toyocamycin and sangivamycin analogs via coupling reaction as potential HCV inhibitors)

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-19-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(methylamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-90-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 677298-94-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(methoxyamino)-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-25-0 CAPLUS

CN 1H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-29-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(dimethylamino)-7-(2-Cmethyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 848645-30-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-methoxy-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

McIntosh

RN 565455-20-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-4-(methylamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-21-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, 4-(dimethylamino)-N-hydroxy-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-24-5 CAPLUS

CN 1H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, 4,7-dihydro-N-hydroxy-7-(2-C-methyl-β-D-ribofuranosyl)-4-oxo-(9CI) (CA INDEX NAME)

RN 565455-25-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, 4-amino-N-hydroxy-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-95-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-(methoxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-26-1 CAPLUS

CN 1H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-27-2 CAPLUS

CN 1H-Pyrrolo[2,3-d] pyrimidine-5-carboximidic acid, 4,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-28-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidic acid, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-31-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-(methylamino)-7-(2-C-methyl-

McIntosh

 β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-32-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-(dimethylamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-33-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-4-(methoxyamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 848645-34-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-4-methoxy-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-35-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, N-methyl-4-(methylamino)-7-(2-Cmethyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 848645-36-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidic acid, 4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

IT 565455-18-7P 729595-78-2P 729595-79-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of 2'-β-C-Me toyocamycin and sangivamycin analogs via
 coupling reaction as potential HCV inhibitors)
RN 565455-18-7 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-chloro-7-(2,3,5-tri-0-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-78-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2,3,5-tri-O-benzoyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-79-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-6-bromo-7-(2,3,5-tri-0-benzoyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L6
     ANSWER 15 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
AN
     2004:1127101 CAPLUS
DN
     142:49201
ΤI
     Inhibiting Coronaviridae viral replication and treating
     Coronaviridae viral infection with nucleoside compounds
IN
     Olsen, David B.; Tomassini, Joanne E., Mao, Shi-Shan; Carroll, Steven S.
PΑ
     U.S. Pat. Appl. Publ., 19 pp., which
SO
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
     -------
                                            ------
PΙ
    US 2004259934
                         A1
                                2004/1223
                                            US 2004-832945
                                                                   20040427
PRAI US 2003-467068P
                         Р
                                20030501
    US 2003-470658P
                          Р
                                20030515
OS
    MARPAT 142:49201
AB
     Infection by a Coronaviridae virus (e.g. a coronavirus) and/or
     illness due to a Coronaviridae virus are treated or protected
     against by administration of a therapeutically or prophylactically
     effective amount of certain nucleoside compds. and derivs. thereof, either
     alone or in a composition comprising the nucleoside compound or its derivative
and a
    pharmaceutically acceptable carrier. In addition, replication of a
```

Coronaviridae virus is inhibited by administration of the nucleoside compds. and derivs. thereof, either alone or in pharmaceutical compns. The nucleosides are particularly suitable for use in treating or prophylaxis of an infection by the SARS virus and/or in treating or prophylaxis of SARS, and for use in inhibiting replication of the SARS virus. The nucleoside compds. and derivs. can optionally be administered in combination with other agents active against the Coronaviridae virus and/or an illness due to the virus

The nucleoside compds. are also for use in the manufacture of medicaments for the inhibition of Coronaviridae virus replication, for the

for the inhibition of Coronaviridae virus replication, for the treatment or prophylaxis of Coronaviridae virus infection, and/or for the treatment or prophylaxis of an illness due to a Coronaviridae virus (e.g., the SARS virus). In addition, the compds. are for use as medicaments for the inhibition of Coronaviridae virus replication, for the treatment or prophylaxis of Coronaviridae virus infection, and/or for the treatment or prophylaxis of an illness due to a Coronaviridae virus. Compds. of the invention include e.g. 4-Amino-7-(2-C-methyl- β -D-

ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine (preparation described).

IT 443642-29-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nucleoside compds. for inhibition of Coronaviridae viral replication and treating Coronaviridae viral infection)

RN 443642-29-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 443642-44-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nucleoside compds. for inhibition of Coronaviridae viral replication and treating Coronaviridae viral infection)

RN 443642-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 443642-33-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:848340 CAPLUS

DN 142:226

TI A 7-deaza-adenosine analog is a potent and selective inhibitor of hepatitis C virus replication with excellent pharmacokinetic properties

Olsen, David B.; Eldrup, Anne B.; Bartholomew, Linda; Bhat, Balkrishen; Bosserman, Michele R.; Ceccacci Alessandra; Colwell, Lawrence F.; Fay, John F.; Flores, Osvaldo A.; Getty, Krista L.; Grobler, Jay A.; LaFemina, Robert L.; Markel, Eric J.; Migliaccio, Giovanni; Prhavc, Marija; Stahlhut, Mark W.; Tomassini, Joanne E.; MacCoss, Malcolm; Hazuda, Daria J.; Carroll, Steven S.

CS Department of Biological Chemistry, Merck Research Laboratories, West Point, PA, USA

SO Antimicrobial Agents and Chemotherapy (2004), 48(10), 3944-3953 CODEN: AMACCQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

McIntosh

LA English

AB Improved treatments for chronic hepatitis C virus (HCV) infection are needed due to the suboptimal response rates and deleterious side effects associated with current treatment options. triphosphates of 2'-C-methyl-adenosine and 2'-C-methyl-guanosine were previously shown to be potent inhibitors of the HCV RNA-dependent RNA polymerase (RdRp) that is responsible for the replication of viral RNA in cells. Here we demonstrate that the inclusion of a 7-deaza modification in a series of purine nucleoside triphosphates results in an increase in inhibitory potency against the HCV RdRp and improved pharmacokinetic properties. Notably, incorporation of the 7-deaza modification into 2'-C-methyl-adenosine results in an inhibitor with a 20-fold-increased potency as the 5'-triphosphate in HCV RdRp assays while maintaining the inhibitory potency of the nucleoside in the bicistronic HCV replicon and with reduced cellular toxicity. In contrast, while 7-deaza-2'-C-methyl-GTP also displays enhanced inhibitory potency in enzyme assays, due to poor cellular penetration and/or metabolism, the nucleoside does not inhibit replication of a bicistronic HCV replicon in cell culture. 7-Deaza-2'-C-methyl-adenosine displays promising in vivo pharmacokinetics in three animal species, as well as an acute oral LD in excess of 2,000 mg/kg of body weight in mice. Taken together, these data demonstrate that 7-deaza-2'-C-methyl-adenosine is an attractive candidate for further investigation as a potential treatment for HCV infection.

IT 443642-44-2 443643-26-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(a 7-deaza-adenosine analog is a potent and selective inhibitor of hepatitis C virus replication with excellent pharmacokinetic properties)

RN 443642-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

RN 443643-26-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:773084 CAPLUS

DN 141:388156

TI Structure-Activity Relationship of Hererobase-Modified 2'-C-Methyl Ribonucleosides as Inhibitors of Hepatitis C Virus RNA Replication

AU Eldrup, Anne B.; Prhavc, Marija; Brooks, Jennifer; Bhat, Balkrishen; Prakash, Thazha P.; Song, Quanlai; Bera, Sanjib; Bhat, Neelima; Dande, Prasad; Cook, P. Dan; Bennett, C. Frank; Carroll, Steven S.; Ball, Richard G.; Bosserman, Michele; Burlein, Christine; Colwell, Lawrence F.; Fay, John F.; Flores, Osvaldo A.; Getty, Krista; LaFemina, Robert L.; Leone, Joseph; MacCoss, Malcolm; McMasters, Daniel R.; Tomassini, Joanne E.; Von Langen, Derek; Wolanski, Bohdan; Olsen, David B.

CS Department of Medicinal Chemistry, Isis Pharmaceuticals, Carlsbad, CA, 92008, USA

SO Journal of Medicinal Chemistry (2004), 47(21), 5284-5297 CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

OS CASREACT 141:388156

AB Hepatitis C virus infection constitutes a significant health problem in need of more effective therapies. The authors have recently identified 2'-C-methyladenosine and 2'-C-methylguanosine as potent nucleoside inhibitors of HCV RNA replication in vitro. However, both of these compds. suffered from significant limitations. 2'-C-Methyladenosine was found to be susceptible to enzymic conversions by adenosine deaminase and purine nucleoside phosphorylase, and it displayed limited oral bioavailability in the rat. 2'-C-Methylguanosine, on the other hand, was neither efficiently taken up in cells nor phosphorylated well. As part of an attempt to address these limitations, the authors now report upon the synthesis and evaluation of a series of heterobase-modified 2'-C-Me ribonucleosides. The structure-activity relationship within this series of nucleosides reveals 4-amino-7-(2-C-methyμ-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine and 4-amino-5-fluoro-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3d]pyrimidine as potent and noncytotoxic inhibitors of HCV RNA replication. Both 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7Hpyrrolo[2,3-d]pyrimidine and 4-amino-5-fluoro-7-(2-C-methyl-β-Dribofuranosyl) - 7H-pyrrolo[2,3-d] pyrimidine display improved enzymic stability profiles as compared to that of 2'-C-methyladenosine. Consistent with these observations, the most potent compound, 4-amino-5-fluoro-7H-pyrrolo[2,3-d]pyrimidine ribonucleoside, is orally

bioavailable in the rat. Together, the potency of the 2'-C-methyl-4-amino-pyrrolo[2,3-d]pyrimidine ribonucleosides and their improved pharmacokinetic properties relative to that of 2'-C-methyladenosine suggests that this class of compds. may have clin. utility.

IT 443643-17-2P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (structure-activity relationship of heterobase-modified 2'-C-Me ribonucleosides as inhibitors of hepatitis C virus RNA replication)

RN 443643-17-2 CAPLUS

7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-(2-C-methyl-β-D-CN ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

TT 443642-96-4P

RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (structure-activity relationship of heterobase-modified 2'-C-Me ribonucleosides as inhibitors of hepatitis C virus RNA replication) 443642-96-4 CAPLUS

RN

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl-β-Dribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

443642-29-3P 443642-38-4P 443642-46-4P ΙT 443642-47-5P 443642-53-3P 443642-56-6P

Absolute stereochemistry. Rotation (-).

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-46-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-47-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-53-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-56-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-97-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 2-fluoro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 790240-68-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-5-chloro-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 139209-26-0 141232-24-8

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(structure-activity relationship of heterobase-modified 2'-C-Me ribonucleosides as inhibitors of hepatitis C virus RNA replication)

RN 139209-26-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-(2-C-methyl-β-D-

ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 443642-32-8P 443642-33-9P 443642-39-5P
 443642-40-8P 443642-54-4P 443642-55-5P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (structure-activity relationship of heterobase-modified 2'-C-Me
 ribonucleosides as inhibitors of hepatitis C virus RNA
 replication)
RN 443642-32-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C
methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-33-9 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-54-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

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10/602,142
RN
     443642-55-5 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-methyl-7-(2-C-methyl-β-D-
     ribofuranosyl) - (9CI) (CA INDEX NAME)
Absolute stereochemistry.
   Cl
         Me
                            OH
                 R
                 R R
            Me
                      OH
                 OH
              THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 27
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 18 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
L6
     2004:702027 CAPLUS
AN
DN
     141:207474
     Process for preparing branched rybonucleosides from 1,2-
TT
     anhydroribofuranose intermediates useful in the treatment of HCV
     infection
     Xu, Feng; Bio, Matthew M.; Cowden, Cameron J.; Savary, Kimberly A.;
TN
     Williams, John M.; Mang, Chunhua; Waters, Majorie See
PA
     Merck & Co. Inc., USA
     PCT Int. Appl., 2/2 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
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PATENT NO. DATE KINÓ APPLICATION NO. DATE -----PΙ WO 2004072090 A/1 2004 (826 WO 2004-US3469 20040206 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, &U, CZ, DE DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,/LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM/ KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 1594882 20051116 EP 2004-709000 **A1** 20040206 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK 20030212 PRAI US 2003-446935 Р WO 2004-US3469 **1**0040206 W os MARPAT 141:20/474 GI

McIntosh

AB A process is provided for the preparation of branched-chain ribonucleosides I, wherein wherein R1 is C1-6 alkyl and B is a purine or pyrimidine nucleobase selected from the group consisting of cytosine, uracil, thymine, hypoxanthine, adenine, guanine, 7-deazaguanine, 7-deazaadenine, 7-deaza-2,6-diaminopurine, and 7-deazahypoxanthine; from the 1,2-anhydro derivs. II, wherein PG is a hydroxy protecting group via ring cleavage of the anhydro ring with nucleobases. Compds. I are potential inhibitors of HCV polymerase and useful in the treatment of HCV infection. Thus, 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine was prepared from diol III via ring cleavage of II (R1 = Me, PG = 4-methoxybenzoyl) with 4-phthalimido-7H-pyrrolo[2,3-d]pyrimidine.

IT 443642-29-3P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for preparing branched ribonucleosides from 1,2-anhydroribofuranoses useful for treatment of HCV via ring cleavage with nucleobases)

RN 443642-29-3 CAPLUS

Absolute stereochemistry. Rotation (-).

L6 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

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10/602,142
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2004:650363 CAPLUS
AN
DN
     141:332398
TI
     Practical Synthesis of a Potent Hepatitis C Virus RNA
     Replication Inhibitor
     Bio, Matthew M.; Xu, Feng; Waters, Marjorie; Williams, J. Michael; Savary,
AU
     Kimberly A.; Cowden, Cameron J.; Yang, Chunhua; Buck, Elizabeth; Song,
     Zhiguo J.; Tschaen, David M.; Volante, R. P.; Reamer, Robert A.;
     Grabowski, Edward J. J.
     Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA
CS
     Journal of Organic Chemistry (2004), 69(19), 6257-6266
SO
     CODEN: JOCEAH; ISSN: 0022-3263
PB
     American Chemical Society
DT
     Journal
     English
LA
     CASREACT 141:332398
OS
AB
     A practical, efficient synthesis of 4-amino-7-(2'-C-methyl-β-D-
     ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine, a hepatitis C virus
     RNA replication inhibitor, is described. Starting with inexpensive
     diacetone glucose, the 12-step synthesis features a novel stereoselective
     rearrangement to prepare the key crystalline furanose diol intermediate. This
is
     followed by a highly selective glycosidation to couple the C-2 branched
     furanose epoxide with deazapurine.
IT
     769951-27-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (synthesis of 4-amino-7-(2'-C-methyl-β-D-ribofuranosyl)-7H-
       pyrrolo[2,3-d]pyrimidine via stereoselective rearrangement, epoxide
       ring opening, and stereoselective glycosidation)
RN
     769951-27-1 CAPLUS
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-
CN
     , compd. with methylbenzene (1:2) (9CI) (CA INDEX NAME)
     CM
         443642-29-3
    CRN
     CMF C12 H16 N4 O4
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Absolute stereochemistry. Rotation (-).

CM 2
CRN 108-88-3
CMF C7 H8

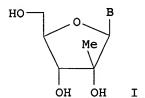
IT 443642-29-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of 4-amino-7-(2'-C-methyl-β-D-ribofuranosyl)-7H pyrrolo[2,3-d]pyrimidine via stereoselective rearrangement, epoxide
 ring opening, and stereoselective glycosidation)
RN 443642-29-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 20 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
L6
AN
     2004:566635 CAPLUS
DN
     141:89323
     Process for the production/of 3'-nucleoside prodrugs
TI
IN
     Storer, Richard; Moussa, Adel; Mathieu, Steven; Qu, Lin
PA
     Idenix Cayman Limited, Çayman I.
     PCT Int. Appl., 57 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                           APPLICATION NO.
                                                                  DATE
                                           -----
                         ----
                                2004071/5
ΡI
     WO 2004058792
                         A1
                                           WO 2003-US41603
                                                                   20031223
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
             NZ, OM, PG, PH, PL, PT RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
             TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
             TR, BF, BJ, CF, CG, ¢I, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                26040715 CA 2003-2511616
     CA 2511616
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                                                                   20031223
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10/602,142
                                                                      20031223
     AU 2003300434
                           A1
                                 20040722
                                              AU 2003-300434
     US 2004181051
                           A1
                                 20040916
                                              US 2003-746395
                                                                      20031223
                                              EP 2003-814400
     EP 1575971
                           A1
                                 20050921
                                                                      20031223
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     BR 2003016868
                                 20051025
                                              BR 2003-16868
                                                                      20031223
                           Α
     CN 1751058
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                                 20060322
                                              CN 2003-80109820
                                                                      20031223
     JP 2006514038
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                                 20060427
                                              JP 2004-562599
                                                                      20031223
                                 20050908
                                              NO 2005-3557
                                                                      20050720
     NO 2005003557
                           Α
                                 20021223 -
PRAI US 2002-436150P
                           P
     WO 2003-US41603
                           W
                                 20031223
os
     CASREACT 141:89323; MARPAT 141:89323
GI
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Provided is a single-step process for the regioselective 3'-acylation of a AB ribofuranosyl 2'- or 3'-branched nucleosides I, wherein B is nucleobase. These compds. are useful as antiviral agents, and in particular, can be used to treat Flaviviridae infections in a host in need thereof (no data). Thus, 9-(2'-C-methyl-3'-O-valinoyl-β-D-ribofuranosyl)-6-Nmethyladenine dihydrochloride was prepared via regioselective esterification of 9-(2'-C-methyl-β-D-ribofuranosyl)-6-N-methyladenine with N-(tert-butoxycarbonyl)-L-valine. IT 443642-29-3P 443642-38-4P 443642-41-9P 443642-45-3P 443642-86-2P 443642-96-4P 629670-25-3P 714249-85-1P 714249-86-2P 714249-87-3P 714249-88-4P 714249-89-5P 714249-90-8P 714249-91-9P 714249-94-2P 714250-08-5P 714250-09-6P 714250-10-9P 714250-11-0P 714250-12-1P 714250-13-2P 714250-14-3P 714250-15-4P 714250-16-5P 714250-17-6P RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (process for production of nucleoside prodrugs via regioselective esterification) RN 443642-29-3 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-ribofuranosyl)-

Absolute stereochemistry. Rotation (-).

(CA INDEX NAME)

(9CI)

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-45-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

RN 443642-86-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-96-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 629670-25-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 714249-85-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-methyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714249-86-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 2,4-diamino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714249-87-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 714249-88-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 5-ethyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714249-89-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidine-4-thione, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714249-90-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidine-4-thione, 2-amino-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 714249-91-9 CAPLUS

CN 1H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 2-amino-4,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

RN 714249-94-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-5-ethyl-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-08-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-ethyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

RN 714250-09-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-N-propyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-10-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-(1-methylethyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-11-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-butyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 714250-12-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-(2-methylpropyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-13-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-(1,1-dimethylethyl)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-14-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-N-pentyl- (9CI) (CA INDEX NAME)

Me
$$(CH_2)_4$$
NH
NR
R
R
R
OH
OH

RN 714250-15-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-cyclopentyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-16-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-(3-methylbutyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 714250-17-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-(2,2-dimethylpropyl)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

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Me<sub>3</sub>C
          NH
                        R
                        R
                   Me
                              OH
                        OH
L6
     ANSWER 21 OF 34
                       CAPLUS
                               COPYRIGHT 2006 ACS on STN
ΑN
     2004:465503 CAPLUS
DN
     141:157373
ΤI
     Synthesis of new 2'-\beta-C-methyl related tri\phi1ribine analogues as anti-
     HCV agents
     Smith, Kenneth L.; Lai, Vicky C. H.; Prigaro, Brett J.; Ding, Yili; Gunic,
AU
     Esmir; Girardet, Jean-Luc; Zhong, Weidong; Hong, Zhi; Lang, Stanley; An,
     Haoyun
CS
     Valeant Pharmaceuticals International/Costa Mesa, CA, 92626, USA
     Bioorganic & Medicinal Chemistry Letters (2004), 14(13), 3517-3520
SO
     CODEN: BMCLE8; ISSN: 0960-894X
PB
     Elsevier Science B.V.
DT
     Journal
     English
LA
os
     CASREACT 141:157373
     Ten new \beta-D-ribofuranosyl and \beta'-\beta-C-methyl-\beta-D-
AB
     ribofuranosyl triciribine derivs. with various N4 and 6-N substituents on
     the tricyclic ring were synthesized from the corresponding toyocamycin and
     new 2'-\beta-C-Me toyocamycin derivs. The inhibitory studies of these
     compds. in the HCV replicon assay reveal that some of them
     possess interesting anti-ACV properties with low cytotoxicity.
IT
     566152-71-4P 566152-73-6 729595-69-1P
     729595-70-4P 729595-71-$P 729595-72-6P
     729595-73-7P
     RL: PAC (Pharmacologidal activity); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation)
        (synthesis and anti-HCV anal. of \beta-D-ribofuranosyl and
        2'-\beta-C-methyl-\beta-T-ribofuranosyl triciribine derivs. with
        various N4 and 6/N substituents on the tricyclic ring)
RN
     566152-71-4 CAPLUS
CN
     1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-5-methyl-1-(2-C-
     methyl-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)
Absolute stereochemistry.
```

RN 566152-73-6 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-ethyl-1,5-dihydro-1-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-69-1 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-1-(2-C-methyl- β -D-ribofuranosyl)-5-propyl- (9CI) (CA INDEX NAME)

RN 729595-70-4 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-butyl-1,5-dihydro-1-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-71-5 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylene-5(1H)-ethanol, 3-amino-1-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-72-6 CAPLUS

CN Acetamide, N-[1,5-dihydro-5-methyl-1-(2-C-methyl- β -D-ribofuranosyl)-1,4,5,6,8-pentaazaacenaphthylen-3-yl]- (9CI) (CA INDEX NAME)

RN 729595-73-7 CAPLUS

CN Acetamide, N-[1,5-dihydro-5-(2-hydroxyethyl)-1-(2-C-methyl-β-Dribofuranosyl)-1,4,5,6,8-pentaazaacenaphthylen-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-79-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-6-bromo-7-(2,3,5-tri-0-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-80-6 CAPLUS

CN lH-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4,7-dihydro-4-oxo-7-(2,3,5-tri-O-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-81-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-chloro-7-(2,3,5-tri-0-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 729595-82-8 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-5-methyl-1-(2,3,5-tri-O-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-83-9 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-ethyl-1,5-dihydro-1-(2,3,5-tri-O-benzoyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 729595-84-0 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-5-propyl-1-(2,3,5-tri-O-benzoyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-85-1 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-butyl-1,5-dihydro-1-(2,3,5-tri-O-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 729595-86-2 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylene-5(1H)-ethanol, 3-amino-1-(2,3,5-tri-0-benzoyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 729595-87-3 CAPLUS

CN Acetamide, N- $\{1,5\text{-dihydro-5-methyl-1-}(2,3,5\text{-tri-O-benzoyl-2-C-methyl-}\beta\text{-D-ribofuranosyl})$ -1,4,5,6,8-pentaazaacenaphthylen-3-yl]- (9CI) (CA INDEX NAME)

RN 729595-88-4 CAPLUS

CN Acetamide, N-[5-[2-(acetyloxy)ethyl]-1,5-dihydro-1-(2,3,5-tri-O-benzoyl-2-C-methyl- β -D-ribofuranosyl)-1,4,5,6,8-pentaazaacenaphthylen-3-yl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:290484 CAPLUS

DN 140:327061

TI Nucleoside derivatives for treating hepatitis C virus infection

IN Roberts, Christopher Don; Dyatkina, Natalia B.

PA Genelabs Technologies, Inc., USA

SO PCT Int. Appl., 119 pp. CODEN: PIXXD2

DT Patent

LA English

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FAN.CNT 2
     PATENT NO.
                          KIND
                                 DATE
                                             APPLICATION NO.
                                                                     DATE
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PΙ
     WO 2004028481
                                 2004040B
                          A2
                                             WO 2003-US31433
                                                                     20030930
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, M¢, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, \sqrt{z}, VC, VN, YU/ZA, ZM, ZW
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             FI, FR, GB, GR, HU, IE, /IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
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                                             CA 2/003-2499253
     CA 2499253
                                 2004/0408
                           AA
                                                                     20030930
                                             AU 2003-279797
     AU 2003279797
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                                 20040419
                                                                     20030930
     EP 1572097
                                 200/50914
                                             EP/2003-773127
                           A2
                                                                     20030930
     EP 1572097
                           A3
                                 20051207
             AT, BE, CH, DE, DK, ES, FR, GB, SR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2006505537
                                             JP 2004-540353
                           T2
                                 20060216
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     NO 2005001969
                           Α
                                 2/0050524
                                             NO 2005-1969
                                                                     20050422
PRAI US 2002-415222P
                           P
                                 20020930
     US 2003-443169P
                           P
                                 20030129
     WO 2003-US31433
                           W
                                 20030930
os
     MARPAT 140:327061
AΒ
     Nucleoside compns. and methods for treating hepatitis C virus
     infections. Thus, 9-(2'-f-methyl-\beta-D-ribofuranosyl)-6-
     methoxyaminopurine was prepared by the reaction of 6-chloro-9-(2'-C-methyl-
     β-D-ribofuranosyl) purine and methxylamine. This compound exhibited
     anti-hepatitis C activity by inhibiting HCV polymerase.
     565455-26-7P 677298-71-4P 677298-75-8P
IT
     677298-84-9P 677298-85-0P 677298-86-1P
     677298-88-3P 677298-90-7P 677298-92-9P
     677298-93-0P 677298-94-1P 6772/98-95-2P
     677299-07-9P 677299-11-5P 677299-12-6P
     RL: PAC (Pharmacological acti/vity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (nucleoside derivs. for freating hepatitis C virus infection)
RN
     565455-26-7 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidin∳-5-carboxamide, 4-(hydroxyamino)-7-(2-C-methy1-
     β-D-ribofuranosyl) - (9CI)
                                (CA INDEX NAME)
Absolute stereochemistry.
HO.
             NH2
    ΝН
                             ОН
                     R
                  R R
             Me
                       OH
                  OH
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RN 677298-71-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-75-8 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, O-methyloxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-84-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-chloro-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

RN 677298-85-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-bromo-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-86-1 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-88-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethyl-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

RN 677298-90-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(hydroxyamino)-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-92-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-bromo-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, O-methyloxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-93-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)-, O-methyloxime (9CI) (CA INDEX NAME)

RN 677298-94-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(methoxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677298-95-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-(methoxyamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-07-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethynyl-1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

RN 677299-11-5 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 5-ethenyl-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-12-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)-5-(5-oxazolyl)-, oxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 443642-33-9

RL: RCT (Reactant); RACT (Reactant or reagent) (nucleoside derivs. for treating hepatitis C virus infection)

RN 443642-33-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-10-4 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)-5-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)

$$R = R$$
 $R = R$
 R

RN 677299-13-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxaldehyde, 4-chloro-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 677299-14-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)-5-(5-oxazolyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:80452 CAPLUS

DN 140:122759

TI Thionucleoside derivatives as inhibitors of RNA-dependent RNA

McIntosh

compds. of the present invention. IT 651035-11-9P 651035-54-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thionucleoside derivs. as inhibitors of RNA-dependent RNA viral polymerase)

RN 651035-11-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-4-thio- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RNA-dependent RNA viral infection with the thionucleoside

RN 651035-54-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-4-thioβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 651035-07-3P 651035-49-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thionucleoside derivs. as inhibitors of RNA-dependent RNA viral polymerase)

RN 651035-07-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-4-thio- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 651035-49-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl-4-thio-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)

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L6
       ANSWER 24 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
AN
       2004:60522 CAPLUS
DN
       140:94238
       Preparation of nucleoside derivatives as antiviral agents and
TI
       inhibitors of RNA-dependent ANA viral polymerase
IN
       Bhat, Balkrishen; Carroll, Steven S.; Eldrup, Anne B.; Maccoss, Malcolm;
       Olsen, David B.; Prakash, Thazha P.
       Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.
PA
       PCT Int. Appl., 50 pp.
SO
       CODEN: PIXXD2
DΤ
       Patent
LA
       English
FAN.CNT 1
       PATENT NO.
                                    KIND
                                               DATE
                                                                APPLICATION NO.
                                                                                                  DATE
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                                                                 -------
                                                                                                  _____
       WO 2004007512
PΙ
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                                      A2
                                               20040122
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             RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, TT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                               20040122
       CA 2490666
                                      AA
                                                               CA 2003-2490666
                                                                                                  20030711
       AU 2003269902
                                                                AU 2003-269902
                                      A1
                                               2004 d202
                                                                                                  20030711
                                                                EP 2003-751791
       EP 1556399
                                               2005 0727
                                      A2
                                                                                                  20030711
                  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                               20051104
       JP 2005533108
                                                                JP 2004-521624
                                      T2
                                                                                                  20030711
                                               20020716
PRAI US 2002-396252P
                                      P
       WO 2003-US21589
                                               20030711
                                      W
       MARPAT 140:94238
os
GI
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I

The present invention provides nucleoside I, wherein wherein R1 is F, AB alkyl, wherein alkyl is unsubstituted or substituted with hydroxy, amino, alkoxy, alkylthio; R2 is amino, F, OH, alkylcarbonyloxy, SH, alkoxy; R3 and R4 are each independently H, alkylcarbonyl, alkenylcarbonyl, alkyloxycarbonyl, cycloalkylcarbonyl, cycloalkyloxycarbonyl, CH2O(C=O)-alkyl, acyl, with the proviso that at least one of R3 and R4 is not hydrogen; R5 and R6 are each independently hydrogen, Me, hydroxymethyl, or fluoromethyl; R7 is hydrogen, alkyl, alkynyl, halogen, cyano, carboxy, alkyloxycarbonyl, azido, amino, alkylamino, di(alkyl)amino, hydroxy, alkoxy, alkylthio, alkylsulfonyl; R8 is H, CN, nitro, alkyl, NHCONH2, amide, thioamide, ester, C(=NH)NH2, hydroxy, alkoxy, amino, alkylamino, di(alkyl)amino, halogen, (1,3-oxazol-2-yl), (1,3-thiazol-2-yl), or (imidazol-2-yl); alkyl is unsubstituted or substituted with one to three groups independently selected from halogen, amino, hydroxy, carboxy, and alkoxy; R9 is H, OH, SH, halogen, alkoxy, alkylthio, alkylcarbonyloxy, cycloalkylcarbonyloxy, alkyloxycarbonyloxy, cycloalkyloxycarbonyloxy, OCH2CH2SC(=0)alkyl, OCH2O(C=0)alkyl, OCH(alkyl)O(C=O)alkyl, amino, alkylamino, cycloalkylamino; R10 is hydrogen, hydroxy, halogen, alkoxy, amino, alkylamino, cycloalkylamino; and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of hepatitis C virus (HCV) NS5B polymerase, as inhibitors of HCV replication, and/or for the treatment of hepatitis C infection. The invention also describes pharmaceutical compns. containing such nucleoside compds. alone or in combination with other agents active against RNA-dependent RNA viral infection, in particular HCV infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection with the nucleoside compds. of the present invention. Thus, 4-amino-7-[2-C-methyl-3,5-di-0-(1-oxo-octyl)β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidine was prepared and tested as antiviral agent and inhibitor of RNA-dependent RNA viral polymerase.

IT 582313-35-7P 582313-51-7P 643032-23-9P 643032-24-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleoside derivs. as antiviral agents and inhibitors of RNA-dependent RNA viral polymerase)

RN 582313-35-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3-0-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 582313-51-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3,5-bis-O-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 643032-23-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-5-0-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

$$NH_2$$
 NH_2
 NH_2

RN 643032-24-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-2,3,5-tris-O-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

Absolute stereochemistry. Rotation (-).

RN 443642-32-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-33-9 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 582313-45-9 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1dimethylethyl)dimethylsilyl]-2-C-methyl- β -D-ribofuranosyl]-N- $\{(4-methoxyphenyl)diphenylmethyl]-(9CI)$ (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-47-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1dimethylethyl)dimethylsilyl]-2-C-methyl-3-0-(1-oxooctyl)-β-Dribofuranosyl]-N-[(4-methoxyphenyl)diphenylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-49-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1dimethylethyl)dimethylsilyl]-2-C-methyl-3-0-(1-oxooctyl)-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

RN 582313-53-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-[(4-methoxyphenyl)diphenylmethyl]-7[2-C-methyl-3-O-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

RN 582313-55-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-[(4-methoxyphenyl)diphenylmethyl]-7[2-C-methyl-3,5-bis-0-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA
INDEX NAME)

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L6
       ANSWER 25 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
AN
       2004:20697 CAPLUS
DN
       140:87662
       2 - and 3 -nucleoside prodrugs for treating Flaviviridae infections
ΤI
       (Sommadossi, Jean-pierre La Colla, Paolo; Storer, Richard; Gosselin,
IN
       Idenix (Cayman) Limited, Cayman I.; Centre National de la Recherche
PA
       Scientifique; Universita Degli Studi di Cagliari
SO
       PCT Int. Appl., 2498 pp.
       CODEN: PIXXD2
DT
       Patent
       English
LA
FAN.CNT 4
       PATENT NO.
                                     KIND
                                               DATE
                                                                 APPLICATION NO.
                                                                                                   DATE
                                     ____
                                                                 -----
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                                               20040108
PI
       WO 2004003000
                                      A2
                                                                 WO 2003-IB3901
                                                                                                   20030627
       WO 2004003000
                                      A3
                                                20041104
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                               20040108
       CA 2490200
                                                             CA 2003-2490200
                                      AA
                                                                                                  20030627
                                               20040119
       AU 2003263412
                                                                AU 2003-263412
                                      Α1
                                                                                                   20030627
                  EP 1525209
                                               20051005
       CN 1678621
                                                                CN 2003-820690
                                      Α
                                                                                                   20030627
       JP 2005537242
                                               2005 208
                                      T2
                                                                 JP 2004-517162
                                                                                                   20030627
       CN 1761677
                                               20060419
                                                                 CN 2003-820501
                                      Α
                                                                                                   20030627
                                               20050310
       WO 2005020884
                                                                 WO 2004-US15395
                                      A2
                                                                                                   20040514
                                               20060622
       WO 2005020884
                                      A3
             W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                   GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SŹ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,/MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
     EP 1656093
                                20060517
                                            EP 2004-776022
                          A2
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
     NO 2005000466
                          Α
                                20050323
                                            NO 2005-466
PRAI US 2002-392350P
                          Р
                                 20020628
    US 2002-392351P
                          Р
                                 20020628
     US 2003-466194P
                          Р
                                 20030428
     US 2003-470949P
                          Р
                                20030514
     WO 2003-IB3901
                          W
                                 20030627
     WO 2004-US15395
                          W
                                20040514
OS
    MARPAT 140:87662
     2' And 3'-Prodrugs of 1'-, 2'-, 3'-, or 4'-branched \beta-D or \beta-L
AB
    nucleosides, or their pharmaceutically acceptable salts and derivs., are
     described which are useful in the prevention and treatment of Flaviviridae
     infections and other related conditions. These modified nucleosides
     provide superior results against flaviviruses and pestiviruses,
     including hepatitis C virus and viruses generally that
     replicate through an RNA-dependent RNA reverse transcriptase. Compds.,
     compns., methods and uses are provided for the treatment of Flaviviridae
     infection, including HCV infection, that include the
     administration of an effective amount of the prodrugs of the invention, or
     their pharmaceutically acceptable salts or derivs. These drugs may
     optionally be administered in combination or alternation with further
     antiviral agents to prevent of treat Flaviviridae infections and
     other related conditions. Preparation of compds. of the invention is included.
IT
     443642-29-3
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (nucleoside prodrugs for treating Flaviviridae infections, and use with
        other agents)
     443642-29-3 CAPLUS
RN
     7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)-
CN
     (9CI) (CA INDEX NAME)
                           Rotation (-).
Absolute stereochemistry.
   NH<sub>2</sub>
                            OH
                 R
                    R
                 R R
            Me
                      OH
                 OH
```

ANSWER 26 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

L6

636583-00-1P

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(carbocyclic nucleoside derivs. as inhibitors of RNA-dependent RNA viral polymerase)

636583-00-1 CAPLUS

1,2-Cyclopentanediol, 5-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-3-

RN

CN

(hydroxymethyl)-1-methyl-, (1S,2R,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

636582-99-5 636583-05-6 636583-06-7 IT 636583-15-8 636583-15-8D, pharmaceutically-acceptable salts 636583-16-9 636583-16-9D, pharmaceuticallyacceptable salts 636583-21-6 636583-21-6D, pharmaceutically-acceptable salts 636583-22-7 636583-22-7D, pharmaceutically-acceptable salts RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (carbocyclic nucleoside derivs. as inhibitors of RNA-dependent RNA viral polymerase) 636582-99-5 CAPLUS RN CN 1,2-Cyclopentanediol, 5-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-3-(hydroxymethyl)-1-methyl-, (2R, 3R, 5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-05-6 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[(1R,3R,4R)-2,3-dihydroxy-4-(hydroxymethyl)-2-methylcyclopentyl]-1,7-dihydro-(9CI) (CA INDEX NAME)

$$H_2N$$
 H_2N
 H_3N
 H_4
 H_4
 H_5
 H_6
 H_6
 H_7
 H_8
 H

RN 636583-06-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[(1R,2S,3R,4R)-2,3-dihydroxy-4-(hydroxymethyl)-2-methylcyclopentyl]-1,7-dihydro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-15-8 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,4R)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-15-8 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,4R)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

RN 636583-16-9 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,3S,4R)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-16-9 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,3S,4R)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-21-6 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,4R)-4-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl]

ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

H₂N
$$\stackrel{\circ}{H}$$
 $\stackrel{\circ}{H}$ $\stackrel{\circ}{H}$

RN 636583-21-6 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,4R)-4-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-22-7 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,3S,4R)-4-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

$$H_2N$$
 H_2N
 H_3
 H_4
 H_5
 H_5
 H_6
 H_6
 H_7
 H_7
 H_8
 H_8
 H_8
 H_9
 $H_$

RN 636583-22-7 CAPLUS

CN Triphosphoric acid, P-[[(1R,2R,3S,4R)-4-(2-amino-1,4-dihydro-4-oxo-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-2,3-dihydroxy-3-methylcyclopentyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 H_2N
 H_3
 H_4
 H_5
 H_5
 H_5
 H_6
 H_7
 H_7
 H_8
 H_8
 H_8
 H_9
 $H_$

IT 636583-32-9P 636583-33-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(carbocyclic nucleoside derivs. as inhibitors of RNA-dependent RNA viral polymerase)

RN 636583-32-9 CAPLUS

CN 1,2-Cyclopentanediol, 5-(4-chloro-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-3-(hydroxymethyl)-1-methyl-, (1R,2R,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 636583-33-0 CAPLUS

CN 1,2-Cyclopentanediol, 5-(4-chloro-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-3-(hydroxymethyl)-1-methyl-, (1S,2R,3R,5R)- (9CI) (CA INDEX NAME)

```
2003:697043 CAPLUS
AN
DN
     139:230954
     Preparation of nucleotide mimics and their prodrugs as antiviral
TI
     , antibacterial, and antitumor agents
     Cook, Phillip Dan; Wang, Guargyi; Bruice, Thomas W.; Boyle, Nicholas A.;
IN
     Leeds, Janet M.; Brooks, Jennifer L.; Prhavc, Marija; Ariza, Maria
     Eugenia; Fagan, Patrick 🗷.; Jin, Yi; Rajwanshi, Vivek K.; Tucker, Kathleen
     Biota, Inc., USA
PA
     PCT Int. Appl., 184 pp.
SO
     CODEN: PIXXD2 /
DT
     Patent
LΑ
     English
FAN.CNT 1
     PATENT NO.
                           KIND
                                   DATE
                                               APPLICATION NO.
                                                                         DATE
                           ----
                                               -----
                                                                         -----
                                   20030964
                                               WO 2003-US6368
PΙ
     WO 2003072757
                            A2
                                                                         20030228
     WO 2003072757
                            Α3
                                   200407/22
                                   20041021
     WO 2003072757
                           C2
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
              UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
              FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
              BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                   20030904
     CA 2477741
                            AA
                                              CA 2003-2477741
                                                                         20030228
     AU 2003217863
                                   2003 0909
                                               AU 2003-217863
                            A1
                                                                         20030228
     US 2004059104
                                   20040325
                                               US 2003-376654
                            A1
                                                                         20030228
                                   20041215
                                              EP 2003-713832
     EP 1485395
                            A2
                                                                         20030228
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                   20050825
                            T2
                                              JP 2003-571445
     JP 2005525358
                                                                         20030228
PRAI US 2002-360699P
                            P
                                   20020228
                                   20020228
     US 2002-360915P
                            Р
     WO 2003-US6368
                            W
                                   2003 0228
OS
     MARPAT 139:230954
GI
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AB. Nucleotide diphosphate mimics and nucleotide triphosphate mimics I, wherein A is O, S, NH, NR; R4' is LR5; L is O, S, NH, NR, CY2O, CY3S, CY2NH, CY2, CY2CY2, CY2CY2, CY2SCY2, CY2NHCY2; Y is H, halogen, alkyl, alkenyl, alkynyl, R5 is substituted di- or triphosphate; R is alkyl,

IT

CN

alkenyl, alkynyl, aryl, acyl, aralkyl; R1-R4 and R2'-R3' are independently H, halogen, OH, SH, NH2, NHOH, N3, NO2, CHO, CO2H, CN, CONH2, CO2R, R, OR, SR, SSR, NHR, NR2; D is nucleobase, which contain diphosphate or triphosphate moiety mimics and optionally sugar-modifications and/or base-modifications were prepared as antiviral, antibacterial, and antitumor agents. The present invention provides a method for the treatment of viral infections, microbial infections, and proliferative disorders. The present invention also relates to pharmaceutical compns. comprising the compds. of the present invention optionally in combination with other pharmaceutically active agents. Thus, 3'-azido-3'-deoxythymidine 5'- α -P-borano- β , γ - (difluoromethylene) triphosphate was prepared and tested in vitro as antiviral, antibacterial, and antitumor agent and HIV reverse transcriptase inhibitor (Ki = 0.008-0.061 μ M). 591752-23-7P 591752-50-0P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleotide mimics and their prodrugs as antiviral antibacterial and antitumor agents)

RN 591752-23-7 CAPLUS

Borate(4-), [7-[5-0-[(1R)-4,4-difluoro-1,3,5,5-tetrahydroxy-3,5-dioxido-2-oxa-1,3,5-triphosphapent-1-yl- κ P1]-2-C-methyl- β -D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-4-aminato(4-)]trihydro-, tetrahydrogen, (T-4)- (9CI) (CA INDEX NAME)

●4 H+

RN 591752-50-0 CAPLUS

CN Borate(4-), [7-[5-O-[(1S)-4,4-difluoro-1,3,5,5-tetrahydroxy-3,5-dioxido-2-oxa-1,3,5-triphosphapent-1-yl-κP1]-2-C-methyl-β-D-ribofuranosyl]-7H-pyrrolo[2,3-d]pyrimidin-4-aminato(4-)]trihydro-, tetrahydrogen, (T-4)- (9CI) (CA INDEX NAME)

●4 H+

IT 591220-78-9P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of nucleotide mimics and their prodrugs as antiviral antibacterial and antitumor agents)

RN 591220-78-9 CAPLUS

CN Acetamide, N-[7-(2,3-di-O-acetyl-2-C-methyl- β -D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 443642-29-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of nucleotide mimics and their prodrugs as antiviral antibacterial and antitumor agents)

RN 443642-29-3 CAPLUS

Absolute stereochemistry. Rotation (-).

L₆

ANSWER 29 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

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AN
     2003:656596 CAPLUS
DN
     139:191380
TI
     Methods of inhibiting orthopoxvirus replication with nucleoside compounds
     Olsen, David B.; Lafemina, Robert L.; Eldrup, Anne B.; Bera, Sanjib
IN
     Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.
PA
     PCT Int. Appl., 99 pp/
so
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                          KIND
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                                                                     DATE
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                                 -----
                                 20030821
ΡI
     WO 2003068244
                           A1
                                             WO 2003-US3703
                                                                     20030207
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
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                                             CA 2003-2474563
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     AU 2003209045
                                 20030904
                                             AU 2003-209045
                           A1
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                                             EP 2003-707772
     EP 1476169
                           A1
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                                                                     20030207
     JP 2005527499
                                             JP 2003-567425
                           T2
                                 20050915
                                                                     20030207
PRAI US 2002-356805P
                           Р
                                 20020213
     WO 2003-US3703
                           W
                                 20030207
     MARPAT 139:191380
os
     The present invention provides methods of inhibiting orthopoxvirus
AB
     replication and/or treating orthopoxvirus infection with certain
     nucleoside compds. and derivs. thereof. These compds. are particularly
     useful as inhibitors of vaccinia virus and variola virus
     replication and/or for the treatment of vaccinia virus and
     variola virus infection. The nucleoside compds. may be
     administered alone or in combination with other agents active against
     orthopoxvirus infection, in particular against vaccinia virus or
     variola virus infection. Another aspect of the present
     invention provides for the use of such nucleoside compds. in the manufacture of
     a medicament for the inhibition of orthopoxvirus replication and/or for
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the treatment of orthopoxvirus infection. Yet a further aspect of the present invention provides such nucleoside compds. for use as a medicament for the inhibition of orthopoxvirus replication and/or for the treatment of orthopoxvirus infection.

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-29-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-ribofuranosyl)(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 443642-96-4 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

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IT
     139209-26-0P 443642-28-2P 443642-34-0P
     443642-38-4P 443642-41-9P 443642-42-0P
     443642-43-1P 443642-44-2P 443642-45-3P
     443642-46-4P 443642-47-5P 443642-48-6P
     443642-49-7P 443642-53-3P 443642-56-6P
     443642-57-7P 443642-60-2P 443642-63-5P
     443642-66-8P 443642-67-9P 443642-80-6P
     443642-83-9P 443642-86-2P 443642-87-3P
     443642-88-4P 443642-97-5P 443643-17-2P
     582313-35-7P 582313-51-7P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (inhibiting orthopoxvirus replication with nucleoside compds.)
RN
     139209-26-0 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-(2-C-methyl-\beta-D-
     ribofuranosyl) - (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

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RN 443642-28-2 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-β-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)
```

RN 443642-34-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-ethyl- β -D-ribofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 443642-43-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-44-2 CAPLUS

Absolute stereochemistry.

McIntosh

RN 443642-45-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-46-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-47-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-48-6 CAPLUS

Absolute stereochemistry.

$$R = R$$
 $R = R$
 $R =$

RN 443642-49-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-5-methyl-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-53-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-56-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-57-7 CAPLUS

Absolute stereochemistry.

RN 443642-60-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(hydroxymethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443642-63-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-66-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl- β -D-erythropentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-67-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl-β-D-threopentofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-80-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-3-fluoro-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-83-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-2-O-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-86-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-87-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N,N-dimethyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-88-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-cyclopropyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-97-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 2-fluoro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 443643-17-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-35-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3-0-(1-oxooctyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 582313-51-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-methyl-3,5-bis-O-(1-oxooctyl)β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

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IT
     443642-32-8P 443642-33-9P 443642-36-2P
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     582313-26-6P 582313-43-7P 582313-45-9P
     582313-47-1P 582313-49-3P 582313-53-9P
     582313-55-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (inhibiting orthopoxvirus replication with nucleoside compds.)
RN
     443642-32-8 CAPLUS
CN
     7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-
     methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

RN 443642-33-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-36-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethyl- β -D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-37-3 CAPLUS

Absolute stereochemistry.

RN 443642-39-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

RN 443642-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-50-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-51-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-2-O-methyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-52-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-2-O-methyl-β-D-ribofuranosyl]-1,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-54-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-55-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 443642-58-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethenyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-62-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-0-[(2,4dichlorophenyl)methyl]-2-C-(hydroxymethyl)-β-D-ribofuranosyl]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-64-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(fluoromethyl)- β -D-ribofuranosyl]-4-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry..

RN 443642-84-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-25-5 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-ethenyl-β-D-ribofuranosyl]- (9CI) (CFINDEX NAME)

$$\begin{array}{c|c}
 & C1 \\
 & R & R \\
 & R & R \\
 & R & R \\
 & C1 \\
 & C$$

RN 582313-26-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-[2-C-(hydroxymethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-43-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-45-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1-

dimethylethyl)dimethylsilyl]-2-C-methyl-β-D-ribofuranosyl]-N-[(4-methoxyphenyl)diphenylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-47-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl-3-O-(1-oxooctyl)-β-D-ribofuranosyl]-N-[(4-methoxyphenyl)diphenylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-49-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[(1,1-dimethylethyl)dimethylsilyl]-2-C-methyl-3-O-(1-oxooctyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 582313-53-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-[(4-methoxyphenyl)diphenylmethyl]-7[2-C-methyl-3-O-(1-oxooctyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 582313-55-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-[(4-methoxyphenyl)diphenylmethyl]-7-[2-C-methyl-3,5-bis-0-(1-oxooctyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6
     ANSWER 30 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ΑN
     2003:590940 CAPLUS
     139:133787
DN
TI
     Preparation of deazapurine nucleoside analogs as antiviral
     An, Haoyun; Ding, Yili; Chamakura, Varaprasad; Hong, Zhi
IN
PA
     Ribapharm Inc., USA
SO
     PCT Int. Appl., 70 pp.
     CODEN: PIXXD2
DT
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LA
     English
FAN.CNT 4
     PATENT NO.
                            KIND
                                    DATE
                                                 APPLICATION NO.
                                                                            DATE
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                                    20030731
PΙ
     WO 2003061576
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                                                                            20030117
     WO 2003061576
                                    20040401
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              PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
              UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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              FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                    20080902
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                             A1
                                                                            20030117
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PRAI US 2002-350296P
                             P
     WO 2003-US1545
                                    20080117
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os
     MARPAT 139:133787
GI
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AB Methods, compns., and uses for various deazapurine nucleoside libraries and library compds. I are provided. Particularly preferred deazapurine nucleosides include 7-deazapurine nucleosides, 7-deaza-8-azapurine nucleosides, toyocamycin nucleoside analogs, 3-deazapurine nucleosides, and 9-deazapurine nucleosides, while preferred uses especially include use of such compds. as pharmacol., and particularly antiviral agents.
4-N,N-dimethylamino-7-(β-D-ribofuranosyl)pyrrolo[2,3-d]pyrimidine-5-N-hydroxycarbamidine was prepared and tested in vitro as antiviral agent.

IT 565455-20-1P 565455-21-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of deazapurine nucleoside analogs as antiviral agents)

RN 565455-20-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-4-(methylamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-21-2 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidine-5-carboximidamide, 4-(dimethylamino)-N-hydroxy- $7-(2-C-methyl-\beta-D-ribofuranosyl)-$ (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-25-6 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, 4-amino-N-hydroxy-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 565455-26-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-(hydroxyamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-27-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, 4-(hydroxyamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-28-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, N-hydroxy-4-(hydroxyamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-29-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-4-(hydroxyamino)-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-30-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboximidamide, N-hydroxy-7-(2-C-methyl- β -D-ribofuranosyl)-4-(methylthio)- (9CI) (CA INDEX NAME)

RN 565455-31-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-hydrazino-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 141232-24-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of deazapurine nucleoside analogs as antiviral
 agents)

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 565455-17-6P 565455-18-7P 565455-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of deazapurine nucleoside analogs as antiviral agents)

RN 565455-17-6 CAPLUS

CN 1H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4,7-dihydro-4-oxo-7-(2,3,5-tri-O-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 565455-18-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-chloro-7-(2,3,5-tri-0-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-19-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-(methylamino)-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- L6 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2003:590902 CAPLUS
- DN 139:127989
- TI Tricyclic nucleoside derivatives for use as antiviral agents
- IN An, Haoyun; Hong, Zhi; Smith Kenneth; Ding, Yili; Girardet, Jean-luc
- PA Ribapharm Inc., USA
- SO PCT Int. Appl., 65 pp

McIntosh

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CODEN: PIXXD2
DT
     Patent
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     English
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     PATENT NO.
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ΡI
     WO 2003061385
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                                200307/31
                                           WO 2002-US31369
                                                                   20021001
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN,/IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
            CG, CI, CM, GA, GN, &Q, GW, ML, MR, NE, SN, TD, TG
                                20020117
PRAI US 2002-350249P
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                                20020710
     US 2002-395241P
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     MARPAT 139:127989
AΒ
     Tricyclic nucleoside libraries and library compds. are prepared using
     combinatorial chemical and non-combinatorial chemical methods. Contemplated
     library compds. are particularly useful in inhibition of viral
     propagation, and particularly of viral propagation of the
     HCV virus. Thus, 6-amino-8-(β-D-ribofuranosyl)-4-
     methylpyrrolo[4,3,2-de]pyrimido[4,5-c]pyridazine (triciribin) was
     synthesized. This inhibited hepatitis C virus in Huh-7 cells
     with EC50 of <10 \muM.
IT
     566152-71-4P 566152-73-6P 566152-75-8P
    RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (tricyclic nucleoside derivs. for use as antiviral agents)
RN
     566152-71-4 CAPLUS
CN
     1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-5-methyl-1-(2-C-
    methyl-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

RN 566152-73-6 CAPLUS
CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-ethyl-1,5-dihydro-1-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-75-8 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-1-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 141232-24-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (tricyclic nucleoside derivs. for use as antiviral agents)

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565455-18-7 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-chloro-7-(2,3,5-tri-0-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-70-3 CAPLUS
CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-5-methyl-1-(2,3,5-tri-O-acetyl-2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 566152-72-5 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 5-ethyl-1,5-dihydro-1-(2,3,5-tri-O-acetyl-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-74-7 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-1-(2-C-methyl- β -D-ribofuranosyl)-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 566152-77-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-6-bromo-7-[2-C-methyl-2,3,5-tris-O-(phenylmethyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-78-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-[2-C-methyl-2,3,5-tris-0-(phenylmethyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-79-2 CAPLUS

CN lH-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4,7-dihydro-7-[2-C-methyl-2,3,5-tris-O-(phenylmethyl)-β-D-ribofuranosyl]-4-oxo- (9CI) (CA INDEX NAME)

RN 566152-80-5 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidine-5-carbonitrile, 4-chloro-7-[2-C-methyl-2,3,5-tris-0-(phenylmethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 566152-81-6 CAPLUS

CN 1,4,5,6,8-Pentaazaacenaphthylen-3-amine, 1,5-dihydro-1-[2-C-methyl-2,3,5-tris-O-(phenylmethyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:555629 CAPLUS

DN 137:125359

TI Preparation of nucleoside derivatives as inhibitors of RNA-dependent RNA viral polymerase

IN Carroll, Steven S.; Lafemina, Robert L.; Hall, Dawn L.; Himmelberger, Amy L.; Kuo, Lawrence C.; Maccoss, Malcolm; Olsen, David B.; Rutkowski, Carrie A.; Tomassini, Joanne E.; An, Maoyun; Bhat, Balkrishen; Bhat, Neelima; Cook, Phillip Dan; Eldrup, Anne B.; Guinosso, Charles J.; Prhavc, Marija; Prakash, Thazha P.

PA Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.

SO PCT Int. Appl., 2,35 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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                                20050421
     WO 2002057425
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG; MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZM, ZW
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     CN 1498221
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                                            CN 2002-806977
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                                20041021
     JP 2004532184
                                            JP 2002-558479
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                                20050615
     EP 1539188
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                                            EP 2002-709095
                                                                    20020118
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US 2004072788
                                20040415
                                            US 2003-431657
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                                                                    20030507
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     ZA 2003005078
                                            ZA 2003-5078
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                                                                    20030630
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                                            US 2003-688691
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                                                                    20031017
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                                20040610
                                            US 2004-250873
                                                                    20040116
     US 2005272676
                                20051208
                                            US 2005-200499
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                                                                    20050809
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PRAI US 2001-263313P
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                                20010406
     US 2001-282069P
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     US 2001-299320P
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     US 2001-344528P
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                                 20011025
     US 2002-52318
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                                 20020118
     WO 2002-US1531
                          W
                                20020118
     US 2003-431657
                          B1
                                20030507
     MARPAT 137:125359
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I

The present invention provides the preparation of nucleoside compds. I, wherein B is nucleobase, Y is H, alkylcarbonyl, phosphate; R1 is H, alkenyl, alkynyl, alkyl; R2 and R3 are independently H, OH, halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylcarbonyloxy, aryloxycrbonyl, azido, amino, alkylamino; R1 and R2 together with the carbon atom to which they are attached form a 3- to 6-membered heterocycle; R4 is H, OH, SH, NH2, alkylamino, cycloalkylamino, halogen, alkyl, alkoxy, CF3; R5 and R6 are independently H, hydroxymethyl, Me, fluoromethyl; and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of hepatitis C virus (HCV) NS5B

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pharmaceutical compns. containing such nucleoside compds. alone or in
combination with other agents active against RNA-dependent RNA
viral infection, in particular HCV infection. Also
disclosed are methods of inhibiting RNA-dependent RNA polymerase,
inhibiting RNA-dependent RNA viral replication, and/or treating
RNA-dependent RNA viral infection with the nucleoside compds. of
the present invention. Thus, 4-amino-1-(2-C-methyl-\beta-D-
ribofuranosyl)-1H-pyrazolo[3,4-d]pyrimidine was prepared as inhibitors of
RNA-dependent RNA viral polymerase. Representative compds.
tested in the HCV NS5B polymerase assay exhibited IC's less than
100 µM. The compds. of the present invention were also evaluated for
their ability to affect the replication of Hepatitis C Virus RNA
in cultured hepatoma (HuH-7) cells containing a sub-genomic HCV
Replicon.
139209-26-0P 141232-24-8P 443642-28-2P
443642-29-3P 443642-34-0P 443642-38-4P
443642-41-9P 443642-42-0P 443642-43-1P
443642-44-2P 443642-45-3P 443642-46-4P
443642-47-5P 443642-48-6P 443642-49-7P
443642-53-3P 443642-56-6P 443642-57-7P
443642-60-2P 443642-63-5P 443642-66-8P
443642-67-9P 443642-80-6P 443642-83-9P
443642-86-2P 443642-87-3P 443642-88-4P
443642-96-4P 443642-97-5P 443642-98-6P
443643-26-3P 443643-28-5P 444020-48-8P
444020-89-7P 444020-90-0P 444020-91-1P
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polymerase, as inhibitors of HCV replication, and/or for the treatment of hepatitis C infection. The invention also describes

PREP (Preparation); USES (Uses)
(preparation of nucleoside derivs. as inhibitors of RNA-dependent human RNA viral polymerase)

RN 139209-26-0 CAPLUS

444020-92-2P 444021-33-4P 444021-34-5P

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

Absolute stereochemistry.

RN 141232-24-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-28-2 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-29-3 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-ribofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 443642-34-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-ethyl-β-D-ribofuranosyl)(9CI) (CA INDEX NAME)

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidin-4-amine, $7-(2-C-methyl-5-0-phosphono-\beta-D-ribofuranosyl)- (9CI) (CA INDEX NAME)$

$$NH_2$$
 NH_2
 NH_2

RN 443642-43-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 443642-45-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

RN 443642-46-4 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-47-5 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-(2-C-methyl-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-49-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-5-methyl-7-(2-C-methyl-2-O-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-53-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-methyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-56-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-(2-C-methylβ-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-60-2 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(hydroxymethyl)-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-63-5 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443642-66-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl- β -D-erythropentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-67-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl-β-D-threopentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-80-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-3-fluoro-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-83-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-2-O-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-86-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-methyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-87-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N,N-dimethyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-88-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-cyclopropyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-96-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$R = R$$
 $R = R$
 $R =$

RN 443642-97-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 2-fluoro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-98-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-arabinofuranosyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 443643-26-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-28-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-ethyl-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

RN 444020-48-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 2-amino-4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 444020-89-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 444020-90-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-[2-C-methyl-5-0-[7-methyl-1-[[[(1-methylethoxy)carbonyl]oxy]methoxy]-1-oxido-5-oxo-2,4,6-trioxa-1-phosphaoct-1-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 444020-91-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 444020-92-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxamide, 4-amino-7-[2-C-methyl-5-0-[7-methyl-1-[[((1-methylethoxy)carbonyl]oxy]methoxy]-1-oxido-5-oxo-2,4,6-trioxa-1-phosphaoct-1-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 444021-33-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 2-amino-4-chloro-7-[5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methyl-

β-D-ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 444021-34-5 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 2-amino-4-chloro-7-[2-C-methyl-5-0-[7-methyl-1-[[[(1-methylethoxy)carbonyl]oxy]methoxy]-1-oxido-5-oxo-

2,4,6-trioxa-1-phosphaoct-1-yl]-β-D-ribofuranosyl]- (9CI) (CA INDEX

NAME)

Absolute stereochemistry.

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IT 443642-32-8P 443642-33-9P 443642-36-2P 443642-37-3P 443642-39-5P 443642-40-8P
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443642-50-0P 443642-51-1P 443642-52-2P

443642-54-4P 443642-55-5P 443642-58-8P 443642-61-3P 443642-64-6P 443642-84-0P

443642-85-1P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nucleoside derivs. as inhibitors of RNA-dependent human RNA viral polymerase)

RN 443642-32-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-33-9 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-36-2 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-37-3 CAPLUS

Absolute stereochemistry.

RN 443642-39-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-50-0 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-51-1 CAPLUS CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-2-O-methyl- β -D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-52-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-2-O-methyl-β-D-ribofuranosyl]-1,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-54-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-55-5 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-methyl-7-(2-C-methyl-β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-58-8 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethenyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-61-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C(hydroxymethyl)-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-64-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(fluoromethyl)- β -D-ribofuranosyl]-4-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-84-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

RN 443642-85-1 CAPLUS

Absolute stereochemistry.

L6 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:555511 CAPLUS

DN 137:109450

TI Preparation of nucleoside derivatives as inhibitors of RNA-dependent RNA viral polymerase

IN Carroll, Steven S.; Maccoss Malcolm; Olsen, David B.; Bhat, Balkrishen; Bhat, Neelima; Cook, Phillip Dan; Eldrup, Anne B.; Prakash, Thazha P.; Prhavc, Marija; Song, Quanlai

PA Merck & Co., Inc., VSA; Isis Pharmaceuticals, Inc.

SO PCT Int. Appl., 85 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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PΙ
     WO 2002057287
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                                             WO 2002-US3086
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     WO 2002057287
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                                 20021/010
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
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             UG, US, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
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                           B1
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$$R^{9}$$
 R^{10}
 R^{8}
 R^{10}
 $R^{$

AB The present invention provides nucleoside compds. I, wherein R1 is

I

alkenyl, alkynyl, alkyl, wherein alkyl is unsubstituted or substituted with hydroxy, amino, alkoxy, alkylthio, one to three fluorine atoms; R2 is hydrogen, fluorine, hydroxy, mercapto, alkoxy, alkyl; or R1 and R2 together with the carbon atom to which they are attached form a 3- to 6-membered saturated monocyclic ring system optionally containing a heteroatom selected from O, S, and NC-alkyl; R3 and R4 are each independently hydrogen, cyano, azido, halogen, hydroxy, mercapto, amino, alkoxy, alkenyl, alkynyl, alkyl; R5 is hydrogen, alkylcarbonyl, phosphate; R6 and R7 are each independently hydrogen, Me, hydroxymethyl, or fluoromethyl; R8 is hydrogen, alkyl, alkynyl, halogen, cyano, carboxy, alkyloxycarbonyl, azido, amino, alkylamino, di(alkyl)amino, hydroxy, alkoxy, alkylthio, alkylsulfonyl, alkylaminomethyl, cycloheteroalkyl; R9 is hydrogen, cyano, nitro, alkyl, NHCONH2, amide, thioamide, ester, C(=NH)NH2, hydroxy, alkoxy, amino, alkylamino, di(alkyl)amino, halogen, (1,3-oxazol-2-yl), (1,3-thiazol-2-yl), or (imidazol-2-yl); R10 and R11 are each independently hydrogen, hydroxy, halogen, alkoxy, amino, alkylamino, di(alkyl)amino, cycloalkylamino, di(cycloalkyl)amino, cycloheteroalkyl, and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of hepatitis C virus (HCV) NS5B polymerase, as inhibitors of HCV replication, and/or for the treatment of hepatitis C infection. The invention also describes pharmaceutical compns. containing such nucleoside compds. alone or in combination with other agents active against RNA-dependent RNA viral infection, in particular HCV infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection with the nucleoside compds. of the present invention. Thus, 4-amino-7-(2-C-methyl- β -Darabinofuranosyl)-7H-pyrrolo[2,3-d]pyrimidine was prepared as inhibitors of RNA-dependent RNA viral polymerase. Representative compds. tested in the HCV NS5B polymerase assay exhibited IC's less than 100 μM . The nucleoside derivs. were also screened for cytotoxicity against cultured hepatoma (HuH-7) cells containing a sub-genomic HCV Replicon in an MTS cell-based assay. 443642-28-2P 443642-34-0P 443642-38-4P 443642-41-9P 443642-42-0P 443642-43-1P 443642-44-2P 443642-45-3P 443642-46-4P 443642-47-5P 443642-48-6P 443642-49-7P 443642-53-3P 443642-56-6P 443642-57-7P 443642-60-2P 443642-63-5P 443642-66-8P 443642-67-9P 443642-80-6P 443642-83-9P 443642-86-2P 443642-87-3P 443642-88-4P 443642-97-5P 443642-98-6P 443642-99-7P 443643-00-3P 443643-01-4P 443643-04-7P 443643-07-0P 443643-09-2P 443643-11-6P 443643-13-8P 443643-15-0P 443643-16-1P 443643-17-2P 443643-18-3P 443643-20-7P 443643-22-9P 443643-24-1P 443643-26-3P 443643-28-5P 443643-29-6P 443643-30-9P 443643-31-0P 443643-32-1P 443643-33-2P 443643-34-3P 443643-37-6P RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of nucleoside derivs. as inhibitors of RNA-dependent human RNA

viral polymerase)

RN 443642-28-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl- β -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-34-0 CAPLUS

Absolute stereochemistry.

RN 443642-38-4 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-(2-C-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-41-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-(2-C-methyl-

McIntosh

β-D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-42-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-5-O-phosphono- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-43-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy(phosphonooxy)phosphiny 1]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-44-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[[hydroxy(phosphonooxy)

McIntosh

phosphinyl]-2-C-methyl- β -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-45-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-46-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-47-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME) Absolute stereochemistry.

RN 443642-48-6 CAPLUS

Absolute stereochemistry.

RN 443642-49-7 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-5-methyl-7-(2-C-methyl-2-O-methyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-53-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-methyl-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

$$NH_2$$
 Me NH_2 Me NH_2 N

RN 443642-56-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-57-7 CAPLUS

Absolute stereochemistry.

RN 443642-60-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(hydroxymethyl)-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443642-63-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-66-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl-β-D-erythropentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-67-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-2-C-methyl-β-D-threopentofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-80-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(3-deoxy-3-fluoro-2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-83-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-C-methyl-2-O-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-86-2 CAPLUS

CN 7H-Pyrrolo[2,3-d] pyrimidin-4-amine, N-methyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-87-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N,N-dimethyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-88-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-cyclopropyl-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-97-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 2-fluoro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

RN 443642-98-6 CAPLUS

Absolute stereochemistry.

RN 443642-99-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-N-methyl(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-00-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-O-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]-N,N-dimethyl(9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 443643-01-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, N-cyclopropyl-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-04-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-ethenyl-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 443643-07-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
phosphinyl]oxy]phosphinyl]-2-C-(hydroxymethyl)-β-D-ribofuranosyl]-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-09-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-(fluoromethyl)-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

NH2

N O OH OPO
$$_3$$
H2

N O P OH OPO $_3$ H2

OH OPO $_4$ HO

CH $_2$ F

RN 443643-11-6 CAPLUS

Absolute stereochemistry.

RN 443643-13-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-5-carboxylic acid, 4-amino-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]]]] -2-C-methylβ-D-ribofuranosyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

NH2
$$CO_2H$$

N O OH OPO_3H_2

N O P OH OH

N OH OH

RN 443643-15-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-bromo-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-16-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-chloro-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443643-17-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-18-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 5-fluoro-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]]] oxy[phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-20-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

$$NH_2$$
 NH_2
 NH_2

RN 443643-22-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-β-D-ribofuranosyl]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

RN 443643-24-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, N4-cyclopropyl-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-26-3 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]]] -2-C-methylβ-D-ribofuranosyl] - (9CI) (CA INDEX NAME)

RN 443643-28-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[2-C-ethyl-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-Dribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-29-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[5-0-[hydroxy[hydroxy(phosphonooxy)
 phosphinyl]oxy]phosphinyl]-2-C-methyl-2-0-methyl-β-D-ribofuranosyl] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-30-9 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 1,7-dihydro-7-[5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

RN 443643-31-0 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-1,7-dihydro-7-[5-O[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methyl-2-Omethyl-β-D-ribofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-32-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-deoxy-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-erythro-pentofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443643-33-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-{3-deoxy-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-threo-pentofuranosyl]- (9CI) (CA INDEX NAME)

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RN 443643-34-3 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 2-fluoro-7-[5-0-
[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methyl-
β-D-ribofuranosyl]- (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

$$NH_2$$
 NH_2
 NH_2

RN 443643-37-6 CAPLUS
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3-deoxy-3-fluoro-5-0[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-2-C-methylβ-D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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IT
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     443642-33-9P 443642-36-2P 443642-37-3P
     443642-39-5P 443642-40-8P 443642-50-0P
     443642-51-1P 443642-52-2P 443642-54-4P
     443642-55-5P 443642-58-8P 443642-61-3P
     443642-62-4P 443642-64-6P 443642-65-7P
     443642-84-0P 443642-85-1P 443642-96-4P
     RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
     preparation); PREP (Preparation); RACT (Reactant or reagent)
        (preparation of nucleoside derivs. as inhibitors of RNA-dependent human RNA
        viral polymerase)
RN
     141232-24-8 CAPLUS
     7H-Pyrrolo[2,3-d]pyrimidine-5-carbonitrile, 4-amino-7-(2-C-methyl-β-D-
CN
     ribofuranosyl) - (9CI) (CA INDEX NAME)
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Absolute stereochemistry. Rotation (-).

RN 443642-32-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-33-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME) Absolute stereochemistry.

RN 443642-36-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-37-3 CAPLUS

Absolute stereochemistry.

McIntosh

Absolute stereochemistry.

RN 443642-40-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 4-chloro-7-(2-C-methyl- β -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-50-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-51-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-2-amine, 7-[3,5-bis-O-[(2,4dichlorophenyl)methyl]-2-C-methyl-2-O-methyl-β-D-ribofuranosyl]-4chloro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-52-2 CAPLUS

CN 4H-Pyrrolo[2,3-d]pyrimidin-4-one, 2-amino-7-[3,5-bis-0-[(2,4-dichlorophenyl)methyl]-2-C-methyl-2-O-methyl-β-D-ribofuranosyl]-1,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)

RN 443642-54-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-Cmethyl-β-D-ribofuranosyl]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-55-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-5-methyl-7-(2-C-methyl- β -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

RN 443642-58-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-ethenyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-61-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(hydroxymethyl)-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-62-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(hydroxymethyl)-β-D-ribofuranosyl]- (9CI)
 (CA INDEX NAME)

RN 443642-64-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(fluoromethyl)-β-D-ribofuranosyl]-4-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-65-7 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-(fluoromethyl)-β-D-ribofuranosyl]- (9CI)
 (CA INDEX NAME)

RN 443642-84-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 7-[3,5-bis-O-[(2,4-dichlorophenyl)methyl]-2-C-methyl-β-D-ribofuranosyl]-4-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 443642-85-1 CAPLUS

RN 443642-96-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine-2,4-diamine, 7-(2-C-methyl-β-Dribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1994:457887 CAPLUS

DN 121:57887

TI 2'-deoxy-2',2'-difluoro-(2,6,8-substituted) purine nucleosides having anti-viral and anti-cancer activity and intermediates

IN Grindley, Gerald Burr; Grossman, Cora Sue; Hertel, Larry Wayne; Kroin, Julian Stanley

PA Eli Lilly and Co., USA

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

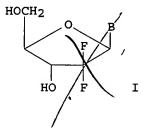
DT Patent

LA English

FAN. CNT 1

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| | PATENT NO. | | | | | KIND | | DATE | A. | APPLICATION NO. | | | | | DATE | | | |
| | | | | | | | - | | | - | | | | | | - | | |
| ΡI | EР | 5762 | 27 | | | A2 | | 1993 | 1229 | E | P : | 1993- | 3048 | 15 | | 1 | 9930 | 621 |
| | ΕP | 5762 | 27 | | | A3 | | 1994 | 0209 | | | | | | | | | |
| | | R: | AT, | BE, | CH, | DE, | DK | , ES, | FR, | GB, G | GR | , IE, | IT, | LI, | LU, | NL, | PT, | SE |
| | AU | 9341 | 347 | | | A1 | | 1993 | 1223 | A | U : | 1993- | 4134 | 7 | Ţ | 1 | 9930 | 618 |
| | CA | 2098 | 876 | | | AA | | 1993 | 1223 | C | A : | 1993- | 2098 | 876 | | 1. | 9930 | 621 |
| | NO | 9302 | 287 | | | Α | | 1993 | 1223 | N | o : | 1993- | 2287 | | | 1 | 9930 | 621 |
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| | BR 9302433 | Α | 19940111 | BR 1993-2433 | 19930621 |
|------|------------------|----|----------|----------------|----------|
| | HU 64553 | A2 | 19940128 | HU 1993-1821 | 19930621 |
| | JP 06056877 | A2 | 19940301 | JP 1993-149191 | 19930621 |
| | CN 1084178 | Α | 19940323 | CN 1993-107740 | 19930621 |
| PRAI | US 1992-902304 | Α | 19920622 | | |
| os | MARPAT 121:57887 | | | | |
| GT | | | | | |



AB Title compds. I [B = purine, azapurine, deazapurine base] were prepared Thus, 2-amino-6-chloropurine was glycosidated, treated with MeNH2, and deblocked to give I [B = 2-amino-6-methylaminopurine] which had an IC50 against human leukemia cells of 0.054 μg/mL and caused 56.9% inhibition of hepatitis B in vitro at 0.1 μg/mL.

IT 156058-25-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of

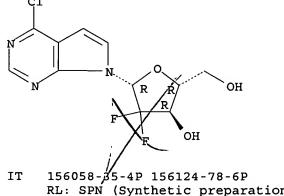
deoxydifluororibofuranosylpurine

nucleosides)

RN 156058-25-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(2-deoxy-2,2-difluoro-β-Derythro-pentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 156058-35-4 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 7-(2-deoxy-2,2-difluoro- β -D-erythro-pentofuranosyl)- (9CI) (CA INDEX NAME)

RN 156124-78-6 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidine, 4-chloro-7-(3,5-di-O-benzoyl-2-deoxy-2,2-difluoro-β-D-erythro-pentofuranosyl)- (9CI) (CA INDEX NAME)